A MORPHOLOGICAL STUDY OF THE NAVAL INTELLIGENCE COMMUNITY- A NEW APPROACH TO TASK ANALYSIS

DONALD LEE MOUNT

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THESIS

A MORPHOLOGICAL STUDY OF THE
NAVAL INTELLIGENCE COMMUNITY –
A NEW APPROACH TO TASK ANALYSIS

by

Donald Lee Mount
William Irving Foster
Elbert William Huber, Jr.
Thomas Riley Watson
Nova Mac Bickell

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Thesis Advisor: F.M. Teti

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In addition to the data-gathering and analysis procedures and

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techniques, the project also presents and demonstrates several comprehensive uses in personnel and education management, for the resultant data base.

The project documentation includes samples of all data-collection instruments utilized, source programs written for data base construction and processing, and a "User's Manual" which provides instructions for accessing the information files.

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by

Donald Lee Mount
Lieutenant Commander, United States Navy
B.A., Naval Postgraduate School, 1973

William Irving Foster
Lieutenant, United States Navy
B.A., University of Virginia, 1965

Elbert William Huber, Jr.
Lieutenant, United States Navy
B.A., University of Texas, 1968

Thomas Riley Watson
Lieutenant, United States Navy
B.A., University of South Carolina, 1969

Nova Mac Bickell
Lieutenant, United States Navy
B.S., University of Illinois, 1970

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SUMMARY

The project described in this report was designed to produce a methodology which would make it possible to study and document a diverse group of individuals who have been identified in some way as a work community. The researchers utilized the methodology to study the group of specialist and sub-specialist officers which make up the naval intelligence community. Aspects of this methodology were borrowed from the current literature and were modified to fit the circumstances at hand. The result was a unique set of procedures which could be adapted to apply to a wide range of problem areas associated with the management of such communities.

The three main objectives of the research were: (1) To provide a fresh and unbiased look at the intelligence community to determine what it was and what it did, (2) to form a data base which would be versatile enough to answer a wide range of questions from several fields of interest, and (3) to provide enough generality in procedures to allow the methodology to be adapted to fit many different community applications.

A background description of the community under study was made first, explaining what it was supposed to do and how it fit into the national intelligence organization. Data for this section was available in the open literature, and sources were primarily organizational charters and mission statements published by the organizations within the community. There

was then presented a discussion of morphological analysis, the research scheme which tied the whole project together.

In the morphological approach to analysis, certain parameters are selected within which a wide range of data is collected. As the data develops, they diverge in many different directions. Constraints must be applied to control the amount of data collected within a given parameter and to bring about convergence, or focusing, of data which is relevant to the study. The various solutions which result from this convergence of data can be applied to any number of interest areas, depending on the value criteria the analyst chooses to apply. Careful control of the methodological process can result in a vast data base which has enormous potential. The morphological approach was tied to data collection schemes including questionnaires, interviews, and Delphi instruments, and maximum use was made of available computer resources.

Implementation of the methodological process included developing procedures for the computer generation of data-gathering forms and the subsequent data manipulations necessary when the forms were returned. The research also included study trips to several organizations within the intelligence community and the interviewing of key personnel at each location. As the large amount of raw data was collected, codified, and filed, the morphological description of the community began to take shape and is presented empirically in the extensive appendices of this report. Several methods were suggested for statistical analysis of the data and brief

analyses were carried out in both functional and educational interest areas. The results of these analyses were presented in both verbal and graphical form and can be of interest to manager and educator alike. Careful methodological checks were performed throughout the project, statistically validating both the data and the methods used to collect it.

One of the most important features of this project lies in the fact that it was accepted by the community with overwhelming response. The researchers realized at the beginning that they were dealing with a group of highly specialized professionals and would require their full cooperation in order to conduct a valid study. The data-gathering instruments were therefore designed both to inform the respondents of the project's progress and to solicit the necessary information, while wasting as little time as possible in administrative detail. The researchers gave the population a sense of participation through Delphi feedback techniques and the population rewarded the researchers, in turn, with an unheard of 85% response.

There were several spin-offs from the project and these included new uses for the available computer facilities. The conclusion discussed them, provided ideas for applications of this methodology to other communities, and offered recommendations to anyone who might decide to undertake such a project in the future.

I. THE PROBLEM

A. INTRODUCTION

This research project was precipitated by the establishment of a masters degree program in naval intelligence at the Naval Postgraduate School in Monterey, California. The new curriculum was planned to prepare intelligence specialist and subspecialist officers to meet the growing challenges of an increasingly complex world situation.

A group of students in the curriculum began discussing whether or not it was possible to measure the effectiveness of a course of study. They quickly realized that in order to analyze the value of a curriculum, it was first necessary to learn something about the community with which the curriculum was associated. They recognized that there was no tangible way to measure the effectiveness or value of the Naval Intelligence Curriculum since the status quo of the naval intelligence community had not been effectively documented. The group of researchers then began the adaptation and formulation of a research methodology which would result in an accurate analysis of any specialized group or community.

B. OBJECTIVES OF THE RESEARCH

This research project was designed with three main objectives in mind. These objectives expand outward in their applicability and contributions to knowledge.

1. Primary Objective

The primary objective was to provide a fresh and unbiased look at a group or a community, in this case the Naval Intelligence Community, in an attempt to determine in the most basic terms, what the body is and what it does. Some standard procedures were used in addition to using several relatively new methods for quantifying heretofore unquantifiable attributes and information. A significant amount of data was collected by these combined processes, and in addition to contributing to the task of describing the community, the data were used for statistical analysis in an attempt to discover useful information beyond that which could be derived by more conventional methods.

2. Secondary Objective

A secondary objective of the research project was to initiate procedures for the formation of a complete and exhaustive data base. The information contained in the data base was collected from officers currently occupying related billets and included biographical as well as educational and functional information concerning both the officer and his billet. The ultimate application for this data base, if it is kept current, can be its use as a dynamic measuring device. Not only can it reflect normal day to day changes, it can also monitor and record alterations brought about by such variables as the increasing number of intelligence specialists and subspecialists with postgraduate education entering the

community. As such, the data base can be used not only by the Board of Curriculum Review as a source of empirical data on which to base its judgements concerning curriculum effectiveness, but also by the Director of Naval Intelligence as a source of information concerning the overall status of naval intelligence as a functioning body.

3. Tertiary Objective

This project involved carrying out an analysis directed at a select group of individuals. New methods were developed to handle the gathering of data. New procedures and facilities were designed to enable the statistical manipulation and storage of the data. Since these methods and procedures could easily be modified so that they were applicable to studies in other areas and of other communities, a tertiary objective of this project was to provide an instrument and methodology which could be used by other curricula and by other organizations in similar research efforts.

C. ENVIRONMENTAL CONTEXT OF PROBLEM

Prior to commencing development of methodology and becoming involved in the specifics of the research per se, the reader should acquire an understanding of the general structure and scope of the so-called "intelligence community." The term "intelligence" has a variety of meanings, depending upon the context in which it is used. The word can be used to refer to a body of knowledge as well as the actions or processes which

are used by formal organizations to produce that knowledge. The term "community" can refer to the national intelligence organization as being an entity in its own right as well as being the framework within which naval intelligence must operate. The remaining paragraphs in this section discuss the national intelligence organization as this framework and present an overall view of naval intelligence in light of its stated missions and functions.

1. National Intelligence

In its broadest sense, the term "intelligence community" is all-inclusive and refers to the many agencies of the Federal Government which collect information and process it into intelligence. As such, the intelligence community usually includes the Central Intelligence Agency (CIA), the intelligence components of the Department of State, the Department of Defense (DOD), the Defense Intelligence Agency (DIA), the Departments of Army, Navy, and Air Force, the National Security Agency (NSA), the Federal Bureau of Investigation (FBI), and the Atomic Energy Commission (AEC). In some cases, such as that of the Defense Intelligence Agency, intelligence is the sole reason for that organization's existence. In other cases, such as the Atomic Energy Commission or the Department of Defense, intelligence is necessary in order to allow the agency to perform some broader function.

a. Authority

Frequently the intelligence requirements and activities of two or more agencies coincide. When that is the case, special purpose committees coordinate the necessary collection and production efforts. To provide coordination, the National Security Act of 1947, as it has been amended, established the National Security Council (NSC), the Director of Central Intelligence, the Central Intelligence Agency, and indirectly, the Defense Intelligence Agency.

b. Components[1]

(1) National Security Council. The NSC oversees the United States Intelligence Board (USIB) which it created to coordinate the activities of the members of the intelligence community concerning national security. Members from most of the community agencies make up the USIB committees which are permanent in nature and which meet regularly to assess developments in their areas of concern. Acting on the advice of the United States Intelligence Board (USIB), the NSC issues directives which define the roles of the various agencies with respect to coordination of activities under the Director of Central Intelligence.

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[1]This description of the Components of the National Intelligence Organization is a condensation of material found in: Intelligence for Naval Officers – Supplement NAVPERS 10889-C(S), (Washington, D.C.: Naval Personnel Program Support Activity, 1968), pp. 1-23.

(2) Director of Central Intelligence. The Director of Central Intelligence coordinates the activities of the entire intelligence community, acts as the President's principal intelligence advisor, is the head of the CIA, and is chairman of the USIB.

(3) Central Intelligence Agency. The CIA, with the Director of Central Intelligence as its head and under the direction of the NSC, coordinates the activities of the government intelligence departments and agencies as they relate to national security. Its principal duties are to

(a) Advise the NSC and make recommendations concerning intelligence activities and coordination of intelligence activities as they relate to national security.

(b) Correlate and evaluate national security intelligence, providing for dissemination as appropriate.

(c) Perform, for the mutual benefit of all agencies concerned, those common functions which the NSC deems appropriate.

(d) Perform other intelligence related functions and duties as the NSC directs.

(4) Defense Intelligence Agency. The Defense Intelligence Agency (DIA) was established as an agency of the Department of Defense by DOD Directive 5105.21 of 1 August 1961, under provisions of the National Security Act of 1947, as amended. As such, it operates under the direction, authority, and control of the Secretary of Defense. The DIA was established in order to eliminate duplicate intelligence functions and facilities within DOD and to provide for more efficient allocation and management of critical intelligence resources. The functions of DIA are to:

(a) Satisfy the intelligence requirements of the major components of the DOD.

(b) Obtain the maximum economy and efficiency in the allocation and management of DOD intelligence resources.

(c) Review, coordinate, and supervise the execution of all DOD intelligence functions whether they are assigned to the DIA or are retained by or assigned to the military departments.

In general, the functions performed by the DIA are basic and are of interest to all military services. For example, the Defense Intelligence School (DIS) in Washington, D.C. provides various levels of intelligence training for military personnel of all services.

2. Naval Intelligence

If the all-inclusive body of intelligence knowledge is compared to a large pyramid, the tip might represent the most highly refined estimates needed for national policy decisions, and somewhere in the middle cross section would fit naval intelligence, where it converts the flow of raw data into contributions to the total body of knowledge surrounding it. As a segment of the pyramid, naval intelligence utilizes those parts above and below it effecting the successful accomplishment of its assigned responsibilities. It thereby produces intelligence which will directly serve naval commanders in problem solving and decision making, and indirectly contributes to the entire intelligence efforts at the national level.

a. Definition

The term "Naval Intelligence" usually is employed to describe the formal organization that collects, produces, and disseminates intelligence information of naval interest.

b. Components

The Naval Intelligence organization is headed by the Commander, Naval Intelligence Command (COMNAVINTCOM). The Commander, in turn, is a member of the staff organization as Assistant Chief of Naval Operations for Intelligence.

(1) Commander, Naval Intelligence Command. The Office of Naval Intelligence (ONI) was established by the Secretary of the Navy in 1882. Historically, the term ONI has denoted all aspects of naval intelligence including the naval attaché system, naval intelligence postgraduate and language schools, amphibious intelligence, air intelligence, fleet intelligence centers, operational intelligence, commerce, travel, photographic intelligence, scientific intelligence, security policy, telecommunications, censorship, counter-intelligence, and investigations. The Naval Intelligence Command was created by a Navy Department reorganization in 1967.

(a) Mission. To direct and manage the activities of the Naval Intelligence Command to ensure the

fulfillment of the intelligence, counterintelligence, investigative, and security requirements and responsibilities of the Department of the Navy.[2]

(b) Functions. To accomplish this mission, the Commander, Naval Intelligence Command shall:[3]

(1) Command the Headquarters, Naval Intelligence Command (NAVINTCOMHQ) and assigned shore (field) activities.

(2) Direct and coordinate intelligence collection, production, and dissemination to satisfy Department of the Navy intelligence information requirements and Defense Intelligence Agency (DIA) tasking.

(3) Direct the development, management and operation of ocean surveillance information management systems.

(4) Direct Department of the Navy participation in the DOD Intelligence Data Handling System (IDHS) and in the development, management and support of Navy intelligence information systems.

(5) Fulfill the investigative and counterintelligence responsibilities of the Department of the Navy (less those combat related counterintelligence matters within the functional responsibilities of the Marine Corps).

(6) Participate, as appropriate, in matters pertaining to Undersea Warfare intelligence.

(7) Direct intelligence support of the participation in Special Warfare and other designated activities as appropriate.

(8) Act as Navy Special Security Officer (SSO) and manage the systems for the protective handling and dissemination of Special Intelligence and Special Activities materials within the Department of the Navy.

(9) Provide a translation service for the Department of the Navy.

(10) Participate in and provide intelligence inputs to naval, joint and national plans and policies and Navy studies and analyses.

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[2]Naval Intelligence Command Missions and Functions, NAVINTCOMINST 5430.2B dated 10 Oct. 1970, pp. 1,2.

[3]Ibid.

(11) Determine requirements for research, development, test and evaluation of new and improved intelligence equipment and techniques.

(12) Prepare and submit intelligence inputs to Navy Program Objectives Memoranda, Office of the Secretary of Defense functional area reviews, and other pertinent planning and programming documents in collaboration with other appropriate commands and agencies.

(13) Serve as major claimant for the Naval Intelligence Command budget, authorize Expense Operating Budgets (EOB's) to assigned shore (field) activities of the Naval Intelligence Command, and provide guidance to these shore (field) activities relative to the allocation and utilization of funds provided for intelligence, counterintelligence, investigative and security programs.

(14) Inspect and appraise the components of the Naval Intelligence Command to ensure the maintenance of efficiency, discipline, readiness, effectiveness and economy in utilization of assigned resources.

(15) Collaborate in matters relating to the training of personnel and the organizing, training, and equipping of units for assignment to intelligence, counterintelligence, investigative and security duties.

(16) Sponsor requirements for manpower and personnel for designated Navy intelligence activities and functions as sponsor for the Naval Reserve intelligence and Air Intelligence programs; function as the Designator Sponsor for 163X, 662X, and 762X officers and NEC Sponsor for YN-2505 and 9592; and act as Career Program Manager for the Intelligence and Counterintelligence Career Development Programs.

(17) Maintain liaison with the Defense Intelligence Agency, and with other organizations on intelligence matters as required.

(18) Function as the Navy point of contact for Department of the Navy personnel assigned to the Defense Attaché System.

(c) Organization. See Appendix A.

(2) Assistant Chief of Naval Operations (Intelligence). The Director of Naval Intelligence (DNI) is responsible for performing the intelligence functions for the Chief of Naval Operations who is required by Navy Regulations

to "collect, evaluate, and disseminate all types of intelligence information required within the Naval Establishment."[4]

(a) Mission.[5] To implement the responsibilities of the Chief of Naval Operations with regard to intelligence, counterintelligence, investigative and security matters; to serve as the principal staff advisor to the Secretary of the Navy and the Chief of Naval Operations in related plans, programming and policy matters; to represent the Department of the Navy on the United States Intelligence Board and with other agencies in intelligence matters; and to advise and assist officials of the Department of the Navy in matters of protocol and liaison with foreign officials.

(b) Functions.[6]

(1) Exercises for the CNO command responsibility relating to the Naval Intelligence Command.

(2) Formulates policy with regard to counterintelligence and investigative matters within the Department of the Navy.

(3) Exercises overall direction in matters pertaining to the security of military information including the protection and control of classified information, disclosure of classified information to foreign governments and international organizations, the security review of all Navy information proposed for public release and the support of National Censorship and censorship planning.

(4) Provides intelligence staff support to the SECNAV, CNO, VCNO, the DCNOs and DMSOs.

---

[4] Intelligence for Naval Officers – Supplement, p. 8.

[5] Missions and Functions of the Director of Naval Intelligence, OPNAVINST 5430.48 dated 26 APR 1974, pp. 1,2.

[6] Ibid.

(5) Participates in the formulation, coordination and evaluation of national, joint and naval intelligence estimates.

(6) Formulates policy with regard to the control, protection, dissemination and use of Special Intelligence and Special Activities materials within the Department of the Navy.

(7) Exercises overall responsibility and authority within the Department of the Navy in matters pertaining to intelligence requirements, collection, production and dissemination, formulates and coordinates related policy; advises concerning intelligence equipment, doctrine and techniques.

(8) Exercises overall coordination and direction in matters pertaining to Undersea Warfare Intelligence and collaborates in the conduct of related special programs with the DCNO (Submarine Warfare).

(9) Sponsors requirements for research, development, test and evaluation of systems, equipment and techniques relating to intelligence, counterintelligence, investigations and security within the Department of the Navy and collaborates on actions to fulfill these requirements. Coordinates and collaborates with the Director, Research, Development, Test and Evaluation in assuring the satisfaction of these requirements.

(10) Coordinates various programs of mutual interest with the Director, Anti-Submarine and Tactical Electro-Magnetic Programs, and appropriate other agencies and offices of the Department of Defense and the Department of the Navy.

(11) Provides a point of contact for liaison with foreign officials accredited to the Department of the Navy and advises and assists on matters relating to protocol and official foreign visitors.

(12) Sponsors the intelligence, counterintelligence, investigative and security of information programs of the Department of the Navy; acts as coordinator for the Navy portion of the General Defense Intelligence Program and sponsor for all but the Mapping, Charting and Geodesy Program element; determines related program objectives, resource requirements and time phasing; and presents and justifies these programs and their supporting budgets including special reviews by the Secretary of Defense for designated intelligence programs.

(13) Participates in the deliberations and activities of the United States Intelligence Board as representative of the Department of the Navy, acts as the Navy member of the Military Intelligence Board and participates in other interdepartmental, Department of Defense and joint service committees as appropriate.

(14) Determines the effectiveness and responsiveness of intelligence, counterintelligence, investigative and security activities to meet current, contingency and mobilization requirements of the Department of the Navy, and collaborates on actions to correct deficiencies.

(15) Collaborates with the Bureau of Naval Personnel in establishing training, career development and maintenance of readiness programs relating to the intelligence, counterintelligence, investigations, and security matters within the Department of the Navy.

(16) Acts as the primary point of contact with DIA, CIA, NSA, FBI, Department of State, the service intelligence agencies, and other foreign and domestic agencies as appropriate on intelligence, counterintelligence, investigations, and security matters; serves as the single point of contact within the Department of the Navy for coordinating the forwarding of Department of the Navy intelligence requirements and for maintaining liaison to ensure their satisfaction.

(c) Organization. See Appendix A.

D. METHODOLOGY

This discussion of methodology takes two parts. First, the selection of an overall methodology, to govern the research and within which to construct the research model, is discussed. Then the discussion turns to the selection of data-gathering techniques employable within the methodology. The governing methodology for this research was morphological analysis.

1. Morphological Analysis

In recent times, the source of new concepts and basic scientific knowledge has consisted not only of the "natural order" but also of the structures and organizations created by

man. The collection of concepts within cybernetics, for instance, were derived jointly from studies of animal nervous systems and man-made control systems. Another powerful methodology was thereby created simply through studying systems "constructed to occupy some of the gaps in the natural order."[7]

The pursuit of any research objective as broad as a "description" of the naval intelligence community demands a methodology which can capitalize on that very broadness. Morphological Analysis, as created by Fritz Zwicky (California Institute of Technology), offers a unique and challenging answer to that problem. The morphological approach concerns itself with the development and practical application of basic methods which will allow the researcher to discover and analyze structures or morphological interrelations among objects, phenomena, and concepts, and to explore the results to be gained.[8] The application of morphological analysis to this research allows great flexibility in data-gathering techniques, since it "uses whatever methodologies are available to arrive at the most complete and unbiased representation of the structure of the problem..."[9]

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[7]F. Zwicky and A. G. Wilson, Eds., New Methods of Thought and Procedure, New York: Springer-Verlag New York, Inc., 1967, p. 302.

[8]Ibid. p. 275.

[9]Ibid. p. 298.

Morphological analysis begins with a clear statement of the problem to be studied. In this research, the problem statement is: Describe the naval intelligence community (see diagram I). Once the assumption is made that there is such a thing as a "naval intelligence community," then there are posed two mutually exclusive hypotheses:

Hypothesis a: The naval intelligence community can be described (in some manner).

Hypothesis b: The naval intelligence community cannot be described (in any manner).

Throughout the research, the identification of elements held in commonality will be the primary means to prove or disprove these qualifying hypotheses.

a. Establishment of Parameters

The next step in the morphological model shown in diagram I is the establishment of parameters to be used in describing the community. This form of analysis requires visualizing all possible interrelations without prejudging the values of any of them. Furthermore, morphology in its proper form takes nothing for granted, but must view all phases and aspects of the problem.[10] The choice of parameters governing the research results in a lengthy list of elements which will later become variables in statistical manipulations. These elements make up the broader parameters:

(1) Organizational Descriptors. Identification of various intelligence organizations, their locations,

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[10]Ibid. p. 277.

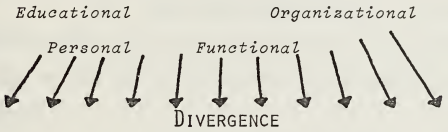
DIAGRAM I

THE MORPHOLOGICAL APPROACH

Problem Statement

"Describe the naval intelligence community"

Establish the Parameters to be Utilized



Establish the Constraints on the Research

Apply the Value Criteria

Solution 1

.
.
.

Solution n

structural components, stated missions, functions, and manning requirements.

(2) Personal Descriptors. Identification and localization of the personnel assigned within naval intelligence; their ages, ranks, and other pertinent biographical data are included in this parameter set.

(3) Functional Descriptors. Identify and describe what the organization within the community, and the billet within the organization, do in terms of functions and outputs.

(4) Educational Descriptors. Identify the educational backgrounds of the personnel assigned to intelligence organizations. These factors include not only educational credits, but levels of expertise gained through experience, as well as formal training.

State-of-the-art methodologies which are used to gather data on these parameters do exist. One such methodology, drawn upon heavily for this research, is task analysis. An important part of the management theory of researchers Henri Fayor and Frederich Taylor was the concept that managers and supervisors at every level should utilize occupational analysis as a tool.[11] This analysis was defined as what, how, and why people did their jobs. The popular

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[11]Robert Butterworth, Task Analysis of U.S. Navy Enlisted Radiomen with Emphasis on Technical Controllers, Master's Thesis, Naval Postgraduate School, Monterey, California, 1973, p. 6.

modern-day term for this procedure is job-analysis, task-analysis, or vocational analysis. Job analysis was employed by the U.S. Army during the first world war as a means of identifying different jobs and assigning them to their proper components. Following the war, educators began employing vocational analysis as the basis for designing formal job training courses whose purpose was preparing students to assume various jobs.

Several methods of task analysis have been developed and attempted. Essentially, these methods fall into two categories, depending on the approach to the study being either task-centered or behavior-centered. The general thrust of the task-centered approach is to disregard the characteristics of the incumbent in the position and only describe the scope and nature of the task involved. Methods involved here include personal interviews, observations, and relating other sources of tasking information to provide general outlines and specific details of ideal task content.[12] The behavior method attempts to describe the task in terms of the behaviors that are necessary and inherent to the successful performance of that particular task. This system basically provides a means of explaining what a person does and how he does it while accomplishing (or failing to accomplish) a

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[12] Walter Charles Mattox, Jr., Job Dimension Analysis of Naval Communications Managers, Dissertation, Naval Postgraduate School, Monterey, March 1973, p. 7-10.

designated task.[13] The methods of task analysis which were modified to suit the purposes of this research lend themselves to computerization and manipulation. Task analysis tends to reduce reliance on subjectiveness and places more emphasis on real data.

Bringing methodologies such as task analysis to bear on the problem of compiling the parameters mentioned above is made more difficult by the reminder that there is a tendency to concentrate on those elements which are easily quantifiable, and ignore those that are difficult to measure, even though their relative weight in the problem may be high.[14] Examples of elements with the descriptive parameters which fit that warning exist mostly among the personnel aspects: attitudes, cooperation and competition levels, prejudices and biases, moral values, and more. Within the methodology the researcher must offset this tendency by incorporating the effects of these elements which cannot be quantifiably expressed.

b. Establishment of Constraints

As the parameters are broken down into component elements (later variables), this stage of the analysis becomes "divergent" (Diagram I). At this point, constraints

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[13] Ibid. p. 8.

[14] Zwicky and Wilson, New Methods of Thought and Procedure, p. 304.

must be imposed to bring the analysis back into line with reality and practicability. The constraints imposed on this research showed their greatest impact on the instruments and actual techniques employed (to be discussed later), but they can be listed generally as:

(1) Methodology and Procedural Constraints. The availability of personnel to data-gathering techniques, applicability of task analysis procedures to this community, and security considerations.

(2) Geographical Constraints. The physical locations of many organizations and billets precluded on-site visits by researchers.

(3) Data-Handling Constraints. Time and computer bank limits required the study to focus on only non-administrative billets within intelligence organizations, and only those with intelligence functions as primary duties (see procedural section).

If the parameter definitions within the model represent the divergent area, then the constraint applications bring about an area of "convergence" (diagram I). It is within this phase of the research that the value criteria underlying the whole project were applied to the data which had been amassed. In keeping with the stated objectives of this project, the data base resulting from a morphological approach such as the one outlined here can be made applicable to any number of value criteria. The data may be viewed in

light of its organizational features, educational elements, or any number of slants and interests. What emerges from the process of problem definition, parameter study, and constraint application, is then a description of the naval intelligence community in the form of a data base able to provide statistically relevant information for a variety of uses.

2. Data Gathering Techniques

One of the objectives of the research was to examine some intelligence aspects which had never before been studied. This would mean collecting and analyzing information which was not recorded anywhere; i.e., intuitive feelings, information carried around in people's heads, information rarely written down and even more rarely compared or discussed with others. The only logical way to get at this information was to question the people involved.

A wide and varied assortment of instruments was available for use. Paramount in the selection of instruments was the requirement to find a compromise between excess complexity and excess brevity; i.e., to provide for the collection of all essential facts without wasting so much of the respondent's time that he became unwilling to cooperate. Another matter which had to be considered in selecting the instruments was the requirement for a format which would not only facilitate data acquisition but would also aid subsequent coding and handling procedures.

Six of the instruments which were considered are listed and discussed below.

a. Questionnaire

A set of questions which is sent to an individual in order to obtain personal and other statistically useful information. The simplicity of a questionnaire lends itself readily to the research since it provides a quick means of gathering base-line and background data.

b. Delphi

A refinement of the questionnaire in that responses to the initial collection effort are collated and returned to the original respondents. The respondents are then asked to re-evaluate their own responses in view of the responses of the overall population. Since the respondents do not have personal contact, there is no chance for pressure to be exerted. This technique is particularly powerful because it provides feedback and promotes continued participation in the project.

c. Brainstorming

A meeting in which all participants are briefed on a problem and then are encouraged to disregard their inhibitions and to express their spontaneous thoughts concerning the topic.

d. Poll

A canvassing of individuals selected by quota or at random in order to obtain opinions for analysis. This

C. VARIABLE DECLARATIONS FOR THE MERGED QUESTIONNAIRE, INTERVIEW, AND DICARDS FILE (QIDICARD)

Card numbers one through eight (sub-card 02) immediately preceded the following appended card images.

Card Number Eight, Sub-card Number 03:

VAR187; cc 1-3; "D1 PERCENTAGE ADMINISTRATION OF INTELLIGENCE OFFICE"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR188; cc 4-6; "D1 PERCENTAGE RESOURCE/ORGANIZATIONAL MANAGEMENT"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR189; cc 7-9; "D1 PERCENTAGE BUDGETING AND FISCAL PLANNING"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR190; cc 10-12; "D1 PERCENTAGE DECISIONS AND RECOMMENDATIONS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR191; cc 13-15; "D1 PERCENTAGE BRIEFS AND DEBRIEFS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR192; cc 16-18; "D1 PERCENTAGE LIAISON"; a three character integer numeric right-justified field with leading

zeroes. This variable was coded "999" if the percentage were unknown.

VAR193; cc 19-21; "D1 PERCENTAGE CHARTS AND AUDIO-VISUAL AIDS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR194; cc 22-24; "D1 PERCENTAGE COUNTERINTELLIGENCE STUDIES"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR195; cc 25-27; "D1 PERCENTAGE DATA ANALYSIS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR196; cc 28-30; "D1 PERCENTAGE ESTIMATES"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR197; cc 31-33; "D1 PERCENTAGE INTELLIGENCE ANNEXES TO OPORDS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR198; cc 34-36; "D1 PERCENTAGE INTELLIGENCE COLLECTION PLANS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR199; cc 37-39; "D1 PERCENTAGE INTELLIGENCE COLLECTION TASKING"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR200; cc 40-42; "D1 PERCENTAGE INTELLIGENCE INFORMATION REPORTS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR201; cc 43-45; "D1 PERCENTAGE INTERFACE WITH ADP/TELECOMMUNICATIONS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR202; cc 46-48; "D1 PERCENTAGE ORDERS-OF-BATTLE"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR203; cc 49-51; "D1 PERCENTAGE PHYSICAL SECURITY"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR204; cc 52-54; "D1 PERCENTAGE TACTICAL PLOTS"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR205; cc 55-57; "D1 PERCENTAGE NON-INTELLIGENCE RELATED OUTPUTS"; a three character integer numeric right

justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

VAR206; cc 58-60; "D1 PERCENTAGE COUNSELING AND TRAINING"; a three character integer numeric right-justified field with leading zeroes. This variable was coded "999" if the percentage were unknown.

[Note: card columns 61-71 were unused blanks.]

VAR207; cc 72; "SPECIAL CASE FLAG"; a one character numeric field. Only one of two different values was coded in this field: "0" indicated no special handling was required of this case; "1" indicated special external handling was required of this case.

VAR208; cc 73; "ANSWER TO DEFENSE INTELLIGENCE SCHOOL QUESTION"; a one character numeric field. Only one of three different values was coded in this field: "0" indicated that the question was not asked in the DELPHI; "1" indicated that the question was asked of the respondent and that he answered in the negative; "3" indicated that the question was asked of the respondent and that his answer was in the affirmative.

VAR209; cc 74; "DELPHI RESPONSE VALIDITY CODE"; a one character numeric field. Only one of two different values was coded in this field: "0" indicated that the information contained in this card was not a response to the DELPHI Questionnaire, but only a dummy record generated by the file generation program; "1" indicated that the

information contained was a valid response to the questionnaire. A "0" code implied VAR187 through VAR206 were "999's".

VAR210; cc 75-76; "CARD NUMBER 8-03 SUBCARD NUMBER"; a two character numeric right-justified field with leading zeroes. Always equalled "03" for this card.

VAR211; cc 77-79; "CARD NUMBER 8-03 SEQUENCE (CASE) NUMBER"; a three character numeric right-justified field with leading zeroes. VAR211 equalled VAR008, VAR023, VAR059, VAR067, VAR075, VAR081, VAR085, VAR135, and VAR185 in all cases.

VAR212; cc 80; "CARD EIGHT, SUB-CARD 03, CARD NUMBER"; a one character numeric field. The only valid entry for this field was the number "8".

The D1CARDS were mechanically sorted in ascending order by case number prior to having been placed on disk storage.

D. VARIABLE DECLARATIONS FOR THE MERGED QUESTIONNAIRE, INTERVIEW, D1CARDS, AND D2CARDS (QID12CDS)

Card numbers one through eight (sub-card 03) immediately preceded the following appended card images.

Card Number Eight, Sub-card Number 04:

VAR213; cc 1; "D2 USED COLLEGE ALGEBRA LEVEL"; a one character numeric field.

VAR214; cc 2; "D2 NEEDED COLLEGE ALGEBRA LEVEL"; a one character numeric field.

VAR215; cc 3; "D2 FUTURE COLLEGE ALGEBRA LEVEL"; a one character numeric field.

VAR216; cc 4; "D2 USED BEGINNING CALCULUS LEVEL"; a one character numeric field.

VAR217; cc 5; "D2 NEEDED BEGINNING CALCULUS LEVEL"; a one character numeric field.

VAR218; cc 6; "D2 FUTURE BEGINNING CALCULUS LEVEL"; a one character numeric field.

VAR219; cc 7; "D2 USED ADVANCED CALCULUS LEVEL"; a one character numeric field.

VAR220; cc 8; "D2 NEEDED ADVANCED CALCULUS LEVEL"; a one character numeric field.

VAR221; cc 9; "D2 FUTURE ADVANCED CALCULUS LEVEL"; a one character numeric field.

VAR222; cc 10; "D2 USED PROBABILITY AND STATISTICS LEVEL"; a one character numeric field.

VAR223; cc 11; "D2 NEEDED PROBABILITY AND STATISTICS LEVEL"; a one character numeric field.

VAR224; cc 12; "D2 FUTURE PROBABILITY AND STATISTICS LEVEL"; a one character numeric field.

VAR225; cc 13; "D2 USED FOREIGN LANGUAGE LEVEL"; a one character numeric field.

VAR226; cc 14; "D2 NEEDED FOREIGN LANGUAGE LEVEL"; a one character numeric field.

VAR227; cc 15; "D2 FUTURE FOREIGN LANGUAGE LEVEL"; a one character numeric field.

VAR228; cc 16; "D2 USED USSR AREA STUDIES LEVEL"; a one character numeric field.

VAR229; cc 17; "D2 NEEDED USSR AREA STUDIES LEVEL"; a one character numeric field.

VAR230; cc 18; "D2 FUTURE USSR AREA STUDIES LEVEL"; a one character numeric field.

VAR231; cc 19; "D2 USED PRC AREA STUDIES LEVEL"; a one character numeric field.

VAR232; cc 20; "D2 NEEDED PRC AREA STUDIES LEVEL"; a one character numeric field.

VAR233; cc 21; "D2 FUTURE PRC AREA STUDIES LEVEL"; a one character numeric field.

VAR234; cc 22; "D2 USED MIDDLE EAST AREA STUDIES LEVEL"; a one character numeric field.

VAR235; cc 23; "D2 NEEDED MIDDLE EAST AREA STUDIES LEVEL"; a one character numeric field.

VAR236; cc 24; "D2 FUTURE MIDDLE EAST AREA STUDIES LEVEL"; a one character numeric field.

VAR237; cc 25; "D2 USED EUROPEAN AREA STUDIES LEVEL"; a one character numeric field.

VAR238; cc 26; "D2 NEEDED EUROPEAN AREA STUDIES LEVEL"; a one character numeric field.

VAR239; cc 27; "D2 FUTURE EUROPEAN AREA STUDIES LEVEL"; a one character numeric field.

VAR240; cc 28; "D2 USED LATIN AMERICAN AREA STUDIES LEVEL"; a one character numeric field.

VAR241; cc 29; "D2 NEEDED LATIN AMERICAN AREA STUDIES LEVEL"; a one character numeric field.

VAR242; cc 30; "D2 FUTURE LATIN AMERICAN AREA STUDIES LEVEL"; a one character numeric field.

VAR243; cc 31; "D2 USED AFRICAN AREA STUDIES LEVEL"; a one character numeric field.

VAR244; cc 32; "D2 NEEDED AFRICAN AREA STUDIES LEVEL"; a one character numeric field.

VAR245; cc 33; "D2 FUTURE AFRICAN AREA STUDIES LEVEL"; a one character numeric field.

VAR246; cc 34; "D2 USED OPERATIONS ANALYSIS LEVEL"; a one character numeric field.

VAR247; cc 35; "D2 NEEDED OPERATIONS ANALYSIS LEVEL"; a one character numeric field.

VAR248; cc 36; "D2 FUTURE OPERATIONS ANALYSIS LEVEL"; a one character numeric field.

VAR249; cc 37; "D2 USED INTERNATIONAL RELATIONS THEORY LEVEL"; a one character numeric field.

VAR250; cc 38; "D2 NEEDED INTERNATIONAL RELATIONS THEORY LEVEL"; a one character numeric field.

VAR251; cc 39; "D2 FUTURE INTERNATIONAL RELATIONS THEORY LEVEL"; a one character numeric field.

VAR252; cc 40; "D2 USED UNDERWATER ACOUSTICS LEVEL"; a one character numeric field.

VAR253; cc 41; "D2 NEEDED UNDERWATER ACOUSTICS LEVEL"; a one character numeric field.

VAR254; cc 42; "D2 FUTURE UNDERWATER ACOUSTICS LEVEL"; a one character numeric field.

VAR255; cc 43; "D2 USED SONAR SYSTEMS LEVEL"; a one character numeric field.

VAR256; cc 44; "D2 NEEDED SONAR SYSTEMS LEVEL"; a one character numeric field.

VAR257; cc 45; "D2 FUTURE SONAR SYSTEMS LEVEL"; a one character numeric field.

VAR258; cc 46; "D2 USED COMMUNICATIONS SYSTEMS LEVEL"; a one character numeric field.

VAR259; cc 47; "D2 NEEDED COMMUNICATIONS SYSTEMS LEVEL"; a one character numeric field.

VAR260; cc 48; "D2 FUTURE COMMUNICATIONS SYSTEMS LEVEL"; a one character numeric field.

VAR261; cc 49; "D2 USED RADAR SYSTEMS LEVEL"; a one character numeric field.

VAR262; cc 50; "D2 NEEDED RADAR SYSTEMS LEVEL"; a one character numeric field.

VAR263; cc 51; "D2 FUTURE RADAR SYSTEMS LEVEL"; a one character numeric field.

VAR264; cc 52; "D2 USED OPTICS LEVEL"; a one character numeric field.

VAR265; cc 53; "D2 NEEDED OPTICS LEVEL"; a one character numeric field.

VAR266; cc 54; "D2 FUTURE OPTICS LEVEL"; a one character numeric field.

VAR267; cc 55; "D2 USED LASERS LEVEL"; a one character numeric field.

VAR268; cc 56; "D2 NEEDED LASERS LEVEL"; a one character numeric field.

VAR269; cc 57; "D2 FUTURE LASERS LEVEL"; a one character numeric field.

VAR270; cc 58; "D2 USED COLLECTION SYSTEMS LEVEL"; a one character numeric field.

VAR271; cc 59; "D2 NEEDED COLLECTION SYSTEMS LEVEL"; a one character numeric field.

VAR272; cc 60; "D2 FUTURE COLLECTION SYSTEMS LEVEL"; a one character numeric field.

VAR273; cc 61; "SPECIAL CASE FLAG"; a one character numeric field. Only one of two different values was coded in this field: "0" indicated no special handling was required of this case; "1" indicated special external handling was required of this case. VAR273 had the same purpose as VAR207 except that it came later chronologically in the project.

[Note: card columns 62-73 were unused blanks.]

VAR274; cc 74; "DELPHI RESPONSE VALIDITY CODE"; a one character numeric field. Only one of two different values was coded in this field: "0" indicated that the information contained in this card was not a response to the DELPHI Questionnaire, but only a dummy record generated by the file generation program; "1" indicated that the information contained was a valid response to the questionnaire. A "0" implied VAR213 through VAR272 were "9's".

VAR275; cc 75-76; "CARD NUMBER 8-04 SUBCARD NUMBER"; a two character numeric right-justified field with leading zeroes. Always equalled "04" for this card.

VAR276; cc 77-79; "CARD NUMBER 8-04 SEQUENCE (CASE) NUMBER"; a three character numeric right-justified field with leading zeroes. VAR276 equalled VAR008, VAR023, VAR059, VAR067, VAR075, VAR081, VAR085, VAR135, VAR185, and VAR211 in all cases.

VAR277; cc 80; "CARD EIGHT, SUB-CARD 04, CARD NUMBER"; a one character numeric field. The only valid entry for this field was the number "8".

Card Number Eight, Sub-card Number 05:

VAR278; cc 1; "D2 USED THREAT/NET ASSESSMENT LEVEL"; a one character numeric field.

VAR279; cc 2; "D2 NEEDED THREAT/NET ASSESSMENT LEVEL"; a one character numeric field.

VAR280; cc 3; "D2 FUTURE THREAT/NET ASSESSMENT LEVEL"; a one character numeric field.

VAR281; cc 4; "D2 USED NATIONAL SECURITY/INTELLIGENCE ORGANIZATION LEVEL"; a one character numeric field.

VAR282; cc 5; "D2 NEEDED NATIONAL SECURITY/INTELLIGENCE ORGANIZATION LEVEL"; a one character numeric field.

VAR283; cc 6; "D2 FUTURE NATIONAL SECURITY/INTELLIGENCE ORGANIZATION LEVEL"; a one character numeric field.

VAR284; cc 7; "D2 USED SOVIET NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR285; cc 8; "D2 NEEDED SOVIET NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR286; cc 9; "D2 FUTURE SOVIET NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR287; cc 10; "D2 USED SOVIET AIR FORCES STUDIES LEVEL"; a one character numeric field.

VAR288; cc 11; "D2 NEEDED SOVIET AIR FORCES STUDIES LEVEL"; a one character numeric field.

VAR289; cc 12; "D2 FUTURE SOVIET AIR FORCES STUDIES LEVEL"; a one character numeric field.

VAR290; cc 13; "D2 USED SOVIET GROUND FORCES STUDIES LEVEL"; a one character numeric field.

VAR291; cc 14; "D2 NEEDED SOVIET GROUND FORCES STUDIES LEVEL"; a one character numeric field.

VAR292; cc 15; "D2 FUTURE SOVIET GROUND FORCES STUDIES LEVEL"; a one character numeric field.

VAR293; cc 16; "D2 USED SOVIET STRATEGIC ROCKET TROOPS STUDIES LEVEL"; a one character numeric field.

VAR294; cc 17; "D2 NEEDED SOVIET STRATEGIC ROCKET TROOPS STUDIES LEVEL"; a one character numeric field.

VAR295; cc 18; "D2 FUTURE SOVIET STRATEGIC ROCKET TROOPS STUDIES LEVEL"; a one character numeric field.

VAR296; cc 19; "D2 USED SOVIET MERCHANT/FISHING/OCEANOGRAPHIC STUDIES LEVEL"; a one character numeric field.

VAR297; cc 20; "D2 NEEDED SOVIET MERCHANT/FISHING/OCEANOGRAPHIC STUDIES LEVEL"; a one character numeric field.

VAR298; cc 21; "D2 FUTURE SOVIET MERCHANT/FISHING/OCEANOGRAPHIC STUDIES LEVEL"; a one character numeric field.

VAR299; cc 22; "D2 USED UNITED STATES NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR300; cc 23; "D2 NEEDED UNITED STATES NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR301; cc 24; "D2 FUTURE UNITED STATES NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR302; cc 25; "D2 USED UNITED STATES NON-NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR303; cc 26; "D2 NEEDED UNITED STATES NON-NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR304; cc 27; "D2 FUTURE UNITED STATES NON-NAVAL FORCES STUDIES LEVEL"; a one character numeric field.

VAR305; cc 28; "D2 USED ALLIED CAPABILITY STUDIES LEVEL"; a one character numeric field.

VAR306; cc 29; "D2 NEEDED ALLIED CAPABILITY STUDIES LEVEL"; a one character numeric field.

VAR307; cc 30; "D2 FUTURE ALLIED CAPABILITY STUDIES LEVEL"; a one character numeric field.

VAR308; cc 31; "D2 USED ADP SYSTEM DESIGN/ANALYSIS LEVEL"; a one character numeric field.

VAR309; cc 32; "D2 NEEDED ADP SYSTEM DESIGN/ANALYSIS LEVEL"; a one character numeric field.

VAR310; cc 33; "D2 FUTURE ADP SYSTEM DESIGN/ANALYSIS LEVEL"; a one character numeric field.

VAR311; cc 34; "D2 USED ADP HARDWARE OPERATIONS LEVEL"; a one character numeric field.

VAR312; cc 35; "D2 NEEDED ADP HARDWARE OPERATIONS LEVEL"; a one character numeric field.

VAR313; cc 36; "D2 FUTURE ADP HARDWARE OPERATIONS LEVEL"; a one character numeric field.

VAR314; cc 37; "D2 USED ADP PROGRAMMING LEVEL"; a one character numeric field.

VAR315; cc 38; "D2 NEEDED ADP PROGRAMMING LEVEL"; a one character numeric field.

VAR316; cc 39; "D2 FUTURE ADP PROGRAMMING LEVEL"; a one character numeric field.

VAR317; cc 40; "D2 USED BASIC ADP INTERFACE OPERATIONS LEVEL"; a one character numeric field.

VAR318; cc 41; "D2 NEEDED BASIC ADP INTERFACE OPERATIONS LEVEL"; a one character numeric field.

VAR319; cc 42; "D2 FUTURE BASIC ADP INTERFACE OPERATIONS LEVEL"; a one character numeric field.

VAR320; cc 43; "D2 USED MANAGEMENT BY OBJECTIVES LEVEL"; a one character numeric field.

VAR321; cc 44; "D2 NEEDED MANAGEMENT BY OBJECTIVES LEVEL"; a one character numeric field.

VAR322; cc 45; "D2 FUTURE MANAGEMENT BY OBJECTIVES LEVEL"; a one character numeric field.

VAR323; cc 46; "D2 USED PERSONNEL MANAGEMENT LEVEL"; a one character numeric field.

VAR324; cc 47; "D2 NEEDED PERSONNEL MANAGEMENT LEVEL"; a one character numeric field.

VAR325; cc 48; "D2 FUTURE PERSONNEL MANAGEMENT LEVEL"; a one character numeric field.

VAR326; cc 49; "D2 USED FINANCIAL MANAGEMENT LEVEL"; a one character numeric field.

VAR327; cc 50; "D2 NEEDED FINANCIAL MANAGEMENT LEVEL"; a one character numeric field.

VAR328; cc 51; "D2 FUTURE FINANCIAL MANAGEMENT LEVEL"; a one character numeric field.

VAR329; cc 52; "D2 USED NATIONAL/NAVAL BUDGET MANAGEMENT LEVEL"; a one character numeric field.

VAR330; cc 53; "D2 NEEDED NATIONAL/NAVAL BUDGET MANAGEMENT LEVEL"; a one character numeric field.

VAR331; cc 54; "D2 FUTURE NATIONAL/NAVAL BUDGET MANAGEMENT LEVEL"; a one character numeric field.

VAR332; cc 55; "D2 USED LABOR RELATIONS MANAGEMENT LEVEL"; a one character numeric field.

VAR333; cc 56; "D2 NEEDED LABOR RELATIONS MANAGEMENT LEVEL"; a one character numeric field.

VAR334; cc 57; "D2 FUTURE LABOR RELATIONS MANAGEMENT LEVEL"; a one character numeric field.

VAR335; cc 58; "D2 USED BRIEFING SKILLS LEVEL"; a one character numeric field.

VAR336; cc 59; "D2 NEEDED BRIEFING SKILLS LEVEL"; a one character numeric field.

VAR337; cc 60; "D2 FUTURE BRIEFING SKILLS LEVEL"; a one character numeric field.

VAR338; cc 61; "D2 USED WRITING SKILLS LEVEL"; a one character numeric field.

VAR339; cc 62; "D2 NEEDED WRITING SKILLS LEVEL"; a one character numeric field.

VAR340; cc 63; "D2 FUTURE WRITING SKILLS LEVEL"; a one character numeric field.

VAR341; cc 64; "D2 USED ORGANIZATION OF THOUGHT LEVEL"; a one character numeric field.

VAR342; cc 65; "D2 NEEDED ORGANIZATION OF THOUGHT LEVEL"; a one character numeric field.

VAR343; cc 66; "D2 FUTURE ORGANIZATION OF THOUGHT LEVEL"; a one character numeric field.

[Note: card columns 67-73 were unused blanks.]

VAR344; cc 74; "DELPHI RESPONSE VALIDITY CODE"; a one character numeric field. Only one of two different values was coded in this field. "0" indicated that the information contained in this card was not a response to the DELPHI Questionnaire, but only a dummy record generated by the file generation program; "1" indicated that the information contained was a valid response to the questionnaire. A "0" implied VAR278 through VAR343 were "9's".

VAR345; cc 75-76; "CARD NUMBER 8-05 SUBCARD NUMBER"; a two character numeric right-justified field with leading zeroes. Always equalled "05" for this card.

VAR346; cc 77-79; "CARD NUMBER 8-05 SEQUENCE (CASE) NUMBER"; a three character numeric right-justified field with leading zeroes. VAR346 equalled VAR008, VAR023, VAR059, VAR067, VAR075, VAR081, VAR085, VAR135, VAR185, VAR211, and VAR276 in all cases.

VAR347; cc 80; "CARD EIGHT, SUB-CARD 05, CARD NUMBER"; a one character numeric field. The only valid entry for this field was the number "8".

TABLE D-1

LIST OF VALID UNIT IDENTIFICATION CODES

WITH ADDRESSES IN ALPHABETIC ORDER

	ASSIGNED UIC	COMMAND NAME
1.	99910	Attn: U.S. Documents Officer Commander in Chief Eastern Atlantic Area APO New York 09218
2.	96013	Center for Naval Analyses 1401 Wilson Blvd. Arlington, Virginia 22209
3.	62982	Chief Navy Advisory Group U.S. Military Assistance Command, Thailand APO San Francisco 96346
4.	99936	Chief of Naval Operations (Attn: OP009F) 1401 Wilson Blvd. Arlington, Virginia 22209
5.	99939	Commandant Defense Intelligence School Washington, D.C. 20301
6.	63842	Commander Antilles Defense Command FPO New York 09551
7.	65792	Commander Atlantic Command Electronic Intelligence Center Norfolk, Virginia 23511
8.	62919	Commander Caribbean Sea Frontier FPO New York 09551
9.	99923	Commander Cruiser Destroyer Group 12 FPO New York 09501

10.	99922	Commander Cruiser Destroyer Group 8 FPO New York 09501
11.	62928	Commander Eastern Sea Frontier Flushing and Washington Avenue Brooklyn, New York 11251
12.	99929	Commander Fighter/Airborne Early Warning Wing Pacific Naval Air Station Miramar San Diego, California 92145
13.	09117	Commander Fleet Air Keflavik Box 2 FPO New York 09571
14.	09550	Commander Fleet Air Mediterranean FPO New York 09521
15.	09946	Commander Fleet Air Reconnaissance Squadron Two FPO New York 09501
16.	09930	Commander Fleet Air Reconnaissance Squadron One FPO San Francisco 96601
17.	57014	Commander Iceland Defense Force Box 1 FPO New York 09571
18.	09519	Commander Medium Attack Wing One Naval Air Station Oceana Virginia Beach, Virginia 23460
19.	00015	Commander Naval Intelligence Command Naval Intelligence Command Hqtrs 2461 Eisenhower Avenue Alexandria, Virginia 22331

20.	63013	Commander NUWPNTRAGRUPAC Naval Air Station North Island San Diego, California 92135
21.	99908	Commander Patrol Wing One FPO Seattle 98768
22.	05917	Commander Patrol Wings Pacific Naval Air Station Moffett Field, California 94035
23.	99930	Commander Reconnaissance Attack Wing 1 Naval Air Station Albany, Georgia 31703
24.	99914	Commander Task Force 168 Hoffman Building 1 2461 Eisenhower Avenue Alexandria, Virginia 22331
25.	99935	Commander Task Force 72 FPO Seattle 98762
26.	31585	Commander U. S. Forces Korea APO San Francisco 96301
27.	99934	Commander U. S. Naval Forces Philippines FPO San Francisco 96650
28.	57006	Commander U. S. Naval Forces Japan FPO Seattle 98762
29.	62894	Commander U. S. Naval Forces Korea APO San Francisco 96301
30.	62822	Commander U. S. Taiwan Defense Command APO San Francisco 96263

31.	57015	Commander Amphibious Forces U. S. Atlantic Fleet Norfolk, Virginia 23520
32.	57019	Commander Amphibious Forces U. S. Pacific Fleet San Diego, California 92155
33.	55297	Commander Amphibious Squadron 1 FPO San Francisco 96601
34.	55335	Commander Amphibious Squadron 3 FPO San Francisco 96601
35.	55269	Commander Amphibious Squadron 5 FPO San Francisco 96601
36.	55281	Commander Amphibious Squadron 7 FPO San Francisco 96601
37.	99901	Commander Carrier Group 1 FPO San Francisco 96601
38.	99902	Commander Carrier Group 2 FPO New York 09501
39.	99903	Commander Carrier Group 3 FPO San Francisco 96601
40.	99904	Commander Carrier Group 4 FPO New York 09501
41.	99905	Commander Carrier Group 5 FPO San Francisco 96601
42.	99906	Commander Carrier Group 6 FPO New York 09501
43.	99907	Commander Carrier Group 7 FPO San Francisco 96601
44.	99911	Commander in Chief Alaska APO Seattle 98742
45.	00066	Commander in Chief Atlantic Naval Base Norfolk, Virginia 23511

46.	00038	Commander in Chief Pacific FPO San Francisco 96610
47.	00060	Commander in Chief U. S. Atalantic Fleet Norfolk, Virginia 23511
48.	00061	Commander in Chief U. S. Naval Forces Europe FPO New York 09501
49.	00070	Commander in Chief U. S. Pacific Fleet FPO San Francisco 96610
50.	99909	Commander in Chief U. S. Southern Command APO New York 09826
51.	57007	Commander Middle East Force FPO New York 09501
52.	57012	Commander Naval Air Force U. S. Atlantic Fleet Naval Air Station Norfolk, Virginia 23511
53.	57025	Commander Naval Air Force U. S. Pacific Fleet Box 1210 Naval Air Sta., North Island San Diego, California 92135
54.	63981	Commander Patrol Wings Atlantic Naval Air Station Brunswick, Maine 04011
55.	08961	Commander Second Fleet FPO New York 09501
56.	57024	Commander Seventh Fleet FPO San Francisco 96601
57.	57042	Commander Sixth Fleet FPO New York 09501
58.	57016	Commander Submarine Force U. S. Atlantic Fleet Norfolk, Virginia 23511

59.	57020	Commander Submarine Force U. S. Pacific Fleet FPO San Francisco 96610
60.	99926	Commander Submarine Group 5 Fleet Station Post Office San Diego, California 92132
61.	99927	Commander Submarine Group 7 Box 50 FPO Seattle 98762
62.	99928	Commander Submarine Group 8 Box 104 FPO New York 09524
63.	57087	Commander Third Fleet FPO San Francisco 96610
64.	00510	Commander U. S. Naval Forces Southern Command FPO New York 09580
65.	65134	Commander U. S. N. Element PACOMELINT Center Box 525, Terminal Navy PO FPO San Francisco 96610
66.	99931	Commanding Officer Fleet Composite Squadron 1 FPO San Francisco 96601
67.	99913	Commanding Officer Fleet Intelligence Center Europe and Atlantic Norfolk, Virginia 23511
68.	63186	Commanding Officer Fleet Intelligence Center Pacific FPO San Francisco 96610
69.	99912	Commanding Officer Fleet Intelligence Center Europe Box 18, Naval Air Station Jacksonville, Florida 32212
70.	99918	Commanding Officer Fleet Intelligence Training Center Atlantic Bldg SP 234, NAS Norfolk, Virginia 23511

71.	99919	Commanding Officer Fleet Intelligence Training Center Pacific Bldg 5, Fleet ASW School San Diego, California 92147
72.	99925	Commanding Officer ELTCORGRU Two Naval Amphibious Base Little Creek Norfolk, Virginia 23520
73.	99933	Commanding Officer Intelligence Center Pacific Box 38 FPO San Francisco 96610
74.	60200	Commanding Officer Naval Air Station Cecil Field, Florida 32215
75.	99932	Commanding Officer Naval Amphibious School Coronado San Diego, California 92155
76.	31695	Commanding Officer Naval Command Systems Support Activity Washington Navy Yard Washington, D. C. 20390
77.	63420	Commanding Officer Naval Intelligence Processing System Support Activity 2461 Eisenhower Avenue Alexandria, Virginia 22331
78.	66400	Commanding Officer Naval Intelligence Processing System Training Facility Naval Air Station Albany Albany, Georgia 31703
79.	68166	Commanding Officer Naval Intelligence Support Center 4301 Suitland Road Washington, D. C. 20390
80.	63064	Commanding Officer Naval Investigative Service Office Hawaii Box 122 FPO San Francisco 96610

81.	63055	Commanding Officer Naval Investigative Service Office Norfolk Norfolk, Virginia 23511
82.	63053	Commanding Officer Naval Investigative Service Office NORLA P. O. Box 6438 New Orleans, Louisiana 70174
83.	63057	Commanding Officer Naval Investigative Service Office San Diego P. O. Box 10666 San Diego, California 92110
84.	63058	Commanding Officer Naval Investigative Service Office San Francisco Building 7, Treasure Island San Francisco, California 94130
85.	63285	Commanding Officer Naval Investigative Service Headquarters 2461 Eisenhower Avenue Alexandria, Virginia 22314
86.	63054	Commanding Officer Naval Investigative Service Office New York Flushing and Washington Avenue Brooklyn, New York 11251
87.	63051	Commanding Officer Naval Investigative Service Naval Base Charleston, South Carolina 29408
88.	63126	Commanding Officer Naval Missile Center Point Mugu, California 93042
89.	62769	Commanding Officer [NS Subic] U. S. Naval Station FPO San Francisco 96651
90.	99921	Commanding Officer [NISO Marianas] U. S. Naval Investigative Service Office P. O. Box 164 FPO San Francisco 96630

91.	62856	Commanding Officer [NAF Lajes] U. S. Naval Air Facility APO New York 09406
92.	65493	Commanding Officer [NIS Europe] U. S. Naval Investigative Service Office Box 11 FPO New York 09510
93.	99920	Commanding Officer [NISO Japan] U. S. Naval Investigative Service Office Box 76 FPO Seattle 98762
94.	00309	Commanding Officer [NS GTMO] U. S. Naval Station Box 25 FPO New York 09593
95.	03366	Commanding Officer USS AMERICA (CVA66) FPO New York 09501
96.	05840	Commanding Officer USS BLUE RIDGE (LCC 19) FPO San Francisco 96601
97.	03364	Commanding Officer USS CONSTELLATION (CVA 43) FPO San Francisco 96601
98.	03343	Commanding Officer USS CORAL SEA (CVA 34) FPO San Francisco 96601
99.	03365	Commanding Officer USS ENTERPRISE (CVAN 65) FPO San Francisco 96601
100.	03342	Commanding Officer USS F D ROOSEVELT (CVA 42) FPO New York 09501
101.	03359	Commanding Officer USS FORRESTAL (CVA 59) FPO New York 09501
102.	03321	Commanding Officer USS HANCOCK (CVA 19) FPO San Francisco 96601

103.	03362	Commanding Officer USS INDEPENDENCE (CV 62) FPO New York 09501
104.	03367	Commanding Officer USS JOHN F KENNEDY (CVA 67) FPO New York 09501
105.	03363	Commanding Officer USS KITTY HAWK (CV 63) FPO San Francisco 96601
106.	03341	Commanding Officer USS MIDWAY (CVA 41) FPO San Francisco 96601
107.	20001	Commanding Officer USS MT WHITNEY (LCC 20) FPO New York 09501
108.	03334	Commanding Officer USS ORISKANY (CVA 34) FPO San Francisco 96601
109.	03361	Commanding Officer USS RANGER (CVA 61) FPO San Francisco 96601
110.	03360	Commanding Officer USS SARATOGA (CV 60) FPO New York 09501
111.	64591	Deputy Director Strategic Target Planning Offutt Air Force Base Nebraska 68113
112.	99943	Director Defense Intelligence Agency (Alternate National Military Command Center) Washington, D. C. 20301
113.	99940	Director Defense Intelligence Agency (Arlington Hall Station) Washington, D. C. 20301
114.	99945	Director Defense Intelligence Agency (Canadian Defense Headquarters) Washington, D. C. 20301

115.	99944	Director Defense Intelligence Agency (National Emergency Airborne Command Post) Washington, D. C. 20301
116.	99946	Director Defense Intelligence Agency (National Mil Intell Center) Washington, D. C. 20301
117.	99942	Director Defense Intelligence Agency (National Security Agency) Washington, D. C. 20301
118.	99938	Director Defense Intelligence Agency (Pomponio Plaza) Washington, D. C. 20301
119.	99941	Director Defense Intelligence Agency (Washington Navy Yard) Washington, D. C. 20301
120.	63415	Director Defense Intelligence Agency Washington, D. C. 20301
121.	30883	Director Naval Ocean Surveillance Information Center 4301 Suitland Road Washington, D. C. 20390
122.	99917	Officer in Charge EURFAST (TG168.3) Box 24 FPO New York 09521
123.	66600	Officer in Charge [FOSIF Rota] Fleet Ocean Surveillance Information Facility FPO New York 09540
124.	66842	Officer in Charge [FOSIC London] Fleet Ocean Surveillance Information Center FPO New York 09510

125. 66967
Officer in Charge
Fleet Ocean Surveillance
Information Center
Norfolk, Virginia 23511

126. 66970
Officer in Charge [FOSIF WPAC]
Fleet Ocean Surveillance
Information Facility
FPO Seattle 98768

127. 99916
Officer in Charge
LANTFAST (TG168.2)
CINCLANT Compound
Norfolk, Virginia 23511

128. 62930
Officer in Charge
Navy Field Operational
Intelligence Office
Fort George G. Meade
Maryland 20755

129. 99937
Officer in Charge
NFOIO (Friendship Annex)
Fort George G. Meade
Maryland 20755

130. 99915
Officer in Charge
PACFAST (TG168.1)
CINCPACFLT, Box 14
FPO San Francisco 96610

TABLE D-2

List of Valid CONUS/OVERSEAS Codes

The following lists and defines those values which were coded in card column 73 of the first card of the data base. VAR005 is the variable number associated with this field.

"0" = command is located within the continental United States.

"1" = command is located on the European continent or on land in proximity to the European continent (e.g., Iceland).

"2" = command is located ashore in an area surrounding the Pacific Ocean.

"3" = command is an afloat command operating in either the Atlantic Ocean or the Mediterranean.

"4" = command is an afloat command operating in the Pacific Ocean.

TABLE D-3

List of Valid State and Country Codes

The following lists and defines those values which were coded in card columns 74-75 of the first card of the data base. VAR006 is the variable number associated with this field.

"AF" = any afloat command
"AK" = Alaska
"AZ" = Azores
"CA" = California
"CN" = Nationalist China
"CZ" = Panama Canal Zone
"DC" = Washington, D.C.
"FL" = Florida
"GM" = Guam
"GT" = Guantanamo Bay, Cuba
"HI" = Hawaii
"IC" = Iceland
"IT" = Italy
"JP" = Japan
"KO" = Korea
"LA" = Louisiana
"MA" = Marianas Islands
"MD" = Maryland
"ME" = Maine
"NB" = Nebraska
"NY" = New York
"PA" = Pennsylvania
"PI" = Philippine Islands
"PR" = Peurto Rico
"SC" = South Carolina
"SP" = Spain
"TH" = Thailand
"UK" = United Kingdom
"VA" = Virginia

TABLE D-4

List of Valid Researcher Code Numbers

The following lists and defines those values which were coded in card column 76 of the first card of the data base. VAR007 is the variable number associated with this field.

"1" = Lieutenant Commander D. L. Mount

"2" = Lieutenant W. I. Foster

"3" = Lieutenant N. M. Bickell

"4" = Lieutenant E. W. Huber, Jr.

"5" = Lieutenant T. R. Watson

TABLE D-5

List of Valid Respondent Rank Codes

The following lists and defines those values which were coded in card column 41 of the second card of the data base. VAR011 is the variable number associated with this field.

"1" = respondent was a civilian

"3" = respondent was a lieutenant (paygrade 0-3)

"4" = respondent was a lieutenant commander (paygrade 0-4)

"5" = respondent was a commander (paygrade 0-5)

"6" = respondent was a captain (paygrade 0-6)

TABLE D-6

List of Valid Respondent Educational Level Codes

The following lists and defines those values which were coded in card column 66 of the second card of the data base. VAR018 is the variable number associated with this field.

"0" = respondent had less than a bachelors degree.

"1" = respondent had a bachelors degree or equivalent.

"2" = respondent had a bachelors degree plus some post-graduate studies, or equivalent, but did not have a masters degree or equivalent.

"4" = respondent had a masters degree, or equivalent.

"5" = respondent had a doctoral level degree.

The Defense Intelligence School, or its predecessor the Naval Intelligence School, did not qualify under the definition given to a bachelors or masters level education.

TABLE D-7

List of Valid Respondent Training Codes

The following lists and defines those values which were coded in card columns 67-71 of the second card of the data base. VAR019 is the variable number associated with this field.

"1" = respondent had previous intelligence related experience.

"2" = respondent had previous military experience (other than intelligence related).

"3" = respondent had attended the Defense Intelligence School or its predecessor, the Naval Intelligence School.

"4" = respondent had photographic interpretation or photographic experience.

"5" = respondent had attended intelligence training courses such as those given at the Fleet Intelligence Training Centers or at Lowry Air Force Base.

"6" = respondent had foreign language training (source of the training was not important).

"7" = respondent had automatic data processing experience or training related to automatic data processing.

"8" = respondent had obtained professional military education (as opposed to civilian education), but no degree program was associated with the education. Examples included the various war and staff colleges.

"9" = respondent had professional training (as opposed to education) other than intelligence related training. Examples included nuclear weapons/nuclear technology training, the Fleet Anti-Air Warfare Training Centers, etc.

TABLE D-8

List of Valid Additional Output Codes

The following lists and defines those values which were coded in columns 33-35 of cards four, five, and six, and in columns 71-73 of cards four and five of the data base. VAR062, VAR065, VAR070, VAR073, and VAR078 are the variable numbers associated with these fields.

"A" = administration of an intelligence office.
"B" = resource and organizational management.
"C" = budgeting and fiscal planning.
"D" = decisions and recommendations.
"E" = briefs and debriefs.
"F" = liaison.
"G" = charts and audio-visual aids.
"H" = counterintelligence studies.
"I" = data analysis.
"J" = estimates.
"K" = intelligence annexes to operation orders.
"L" = intelligence collection plans.
"M" = intelligence collection tasking.
"N" = Intelligence Information Reports.
"O" = interface with automatic data processing and telecommunications.
"P" = orders-of-battle.
"Q" = physical security.
"R" = tactical plots.
"S" = non-intelligence related outputs.
"T" = counseling and training.

TABLE D-9

List of Valid Educational Level Rating Codes

The following lists and defines those values which were coded for the interview and DELPHI Questionnaire educational proficiency level codes. Variable number associated with this coding scheme included: VAR087 through VAR132, VAR137 through VAR182, VAR213 through VAR272, and VAR278 through VAR343.

"1" = That academic pursuit was either not needed or not used.

"2" = That academic pursuit was required or used at a "Basic Knowledge" level, i.e., having general acquaintance with major concepts, capabilities, and limitations.

"3" = That academic pursuit was required or used at a "Working Knowledge" level, i.e., sufficiently familiar to be able to communicate effectively with an expert regarding both a problem and a solution, but not necessarily able actually to work a complex problem without supervision and outside assistance.

"4" = That academic pursuit was required or used at an "Expert or Theoretical" level, i.e., possessed knowledge which allowed one to conceptualize and execute the steps required to provide solutions.

TABLE D-10

List of Valid Interview Data Academic Codes

The following lists and defines those values which were used in various data fields to represent the different educational areas. The first two digits represented a general academic pursuit and the single digit after the decimal point represented a specific subset of the associated academic pursuit.

Mathematics Series (01.x):

01.1 College Algebra
01.2 Beginning Calculus
01.3 Probability and Statistics
01.4 Advanced Calculus

Foreign Language Series (02.x):

02.1 Foreign Language (language not specified)

Area Studies (03.x):

03.1 USSR
03.2 Peoples Republic of China
03.3 Middle East
03.4 Europe
03.5 Latin America
03.6 Africa

Operations Analysis Series (04.x):

04.1 Operations Analysis

International Relations Theory (05.x):

05.1 International Relations

Naval Science Series (06.x):

06.1 Underwater Acoustics
06.2 Sonar Systems
06.3 Communication Systems
06.4 Radar Systems
06.5 Optics
06.6 Lasers
06.7 Collection Systems

National Security Series (07.x):

07.1 National and Naval Budgetary Process
07.2 Threat and Net Assessment
07.3 National Security and Intelligence Organization

Soviet Forces Studies (08.x):

08.1 Naval
08.2 Air Force
08.3 Ground
08.4 PVO
08.5 Strategic Rocket Troops
08.6 Merchant/Fishing/Oceanographic Operations

Blue Forces Studies (09.x):

09.1 Collection Systems
09.2 Naval Forces
09.3 Non-Naval Forces
09.4 Allied Capability

Automatic Data Processing Series (10.x):

10.1 System Design/Analysis/Management
10.2 Hardware Operations
10.3 Software Operations (Programming)
10.4 Basic Interface Operations

Communication Skills (11.x):

11.1 Briefing
11.2 Writing
11.3 Organization of Thought

Management Series (12.x):

12.1 Collection Systems
12.2 PERT
12.3 Management by Objectives
12.4 Personnel
12.5 Financial
12.6 Labor Relations

APPENDIX E

BASIC DATA BASE FILE STRUCTURE, INCLUDING THE ALGOL/FORTRAN LINKAGE, ANCILLARY DATA BASE FILES, DATA FILE VALIDATION, AND THE DATA FILE GENERATION CHRONOLOGY

BASIC DATA BASE FILE STRUCTURE

A. UNIFORMITY IN THE VARIABLE LABELLING SYSTEM

One of the advantages in having chosen the Statistical Package for the Social Sciences [SPSS] analysis programs was the ease of labelling the variables. All variables were assigned a sequential number to identify each field within the input stream. As an example, the first variable was VAR001, followed by VAR002, etc. Even though there was no immediate correlation between the variable label and the meaning of the variable, there were inherent coding advantages. Two advantages were the simplified variable declaration statements required by SPSS, and a relative chronological and spatial connotation within the data base.

In order to make as uniform a data base structure as possible, this sequential variable coding scheme was maintained throughout all programs with only one slight modification. The ALGOL compiler did not recognize differences in a numeric card image input stream unless there was at least one blank space between fields. To conserve data card space, blank spaces between numeric fields were not included. To alleviate

this problem, the ALGOL input stream was read as an 80 column alphanumeric stream and then each numeric field was converted character-by-character from its alphabetic decimal representation to its numeric integer equivalent. In general, both the alphabetic version and the numeric conversion of each transformed variable were in core simultaneously. The numeric version retained the "standardized" variable label similar to the SPSS definition, i.e., VAR043 was a numeric variable in both the SPSS definition and the ALGOL data definition module. The unconverted alphabetic input stream variables were similarly numbered, but appended with the letter "A", i.e., the variables' alphanumeric version. Alphabetic variables required no conversion and no "A" was appended to the variable label. Hence, VAR001 was an alphabetic variable in both SPSS and in ALGOL; VAR043 was also a numeric variable in both SPSS and in ALGOL, but VAR043A was the ALGOL unconverted alphanumeric equivalent of the ALGOL variable VAR043.

B. THE DATA BASE MODULE

Numerous references are made to the ALGOL data base definition module. This module was simply the collectivity of the standardized variable declarations used throughout all ALGOL source programs. The initial data base declaration cards were physically reproduced and inserted in each program which accessed those data cards — another step toward uniformity throughout the entire project.

C. THE BASIC DATA BASE DECLARATION MODULE

To generate the initial data base file, the first iteration of DELPHI A, dated 19 August 1974 [Appendix B, Sample A], was transferred, field by field, to the coding sheet exhibited in Appendix B, Sample B. Data control and coder information variables were added to make the data base fully responsive to any form of data retrieval and to allow for regeneration in case of catastrophic failure. The most important control variables were the sequence or case number, and the card number. These two variables were punched in columns 77-79 and column 80, respectively, in each card to allow for card sorting and case identification. This initial questionnaire consumed seven cards; these seven cards became the basic data base. They were then mechanically sorted in ascending order by card number within sequence number and then placed on the Model 2311 disk for validation, printing, and analysis. This file of seven cards per case was labelled QCARDS for JCL purposes. Appendix D contains a list of the types of information coded for each variable.

D. SPECIAL CODING CONVENTIONS FOR CERTAIN ALPHABETIC FIELDS

Several variables were designed and coded specifically for the purpose of using the upper and lower printing capability of the Model 1403 high speed chain printer. The Text Processing System (TPS) program subroutines mentioned previously were designed to facilitate this printer option. In order to key certain special operating parameters and to control

upper/lower case printing, TPS reserved several seldom used characters for internal flagging. Of coding interest were the "/" and the "-" characters. The "/" was the special flag to shift printer case; if the "TN" print chain were set to lower case, then a "/" immediately preceding a letter shifted [only] that next letter to upper case, and vice versa. The "-" character was utilized in conjunction with specified one or two character fields to control printer operating parameters. To take full advantage of the TPS program, these special characters had to be used judiciously.

The "-" character was excluded entirely from use in the following alphabetic fields: VAR001 (command name), VAR003 (billet title), VAR010 (respondent's name), VAR061 (first additional output wording), VAR064 (second additional output wording), VAR069 (third additional output wording), VAR072 (fourth additional output wording), and VAR077 (fifth additional output wording).

The respondent's name, VAR010, was especially coded to include the "/" character. Because some respondents submitted only their last names and since some last names were two separate words, some means for controlling "non-standard" last name situations also had to be included in the coding scheme. It was decided that a "#" character would be used as the flag to indicate that the name variable contained only the respondent's last name, or that a double-worded last name existed. Surname suffixes were included on several of the

questionnaire forms. Hence, "Jr.", "II", and "III" were also included in the name variable. For these reasons, coding all the possible name permutations (VAR010) became a programmer's nightmare. The best way to explain this coding scheme is to provide several examples to show the different formats. A "standard" name was coded thus: "/JOHN /T. /JONES"; "non-standard" name examples are:

/JOHN /T. /JONES, /JR.,

/J. /T. /JONES, /I/I/I,

#/JOHNSON,

/J. /T.#/MC /DONALD,

/A. /B.#/MC /ADOO, /I/I, and

#/MC /DONALD.

ALGOL/FORTRAN LINKAGE UNDER OS360/MVT CONTROL

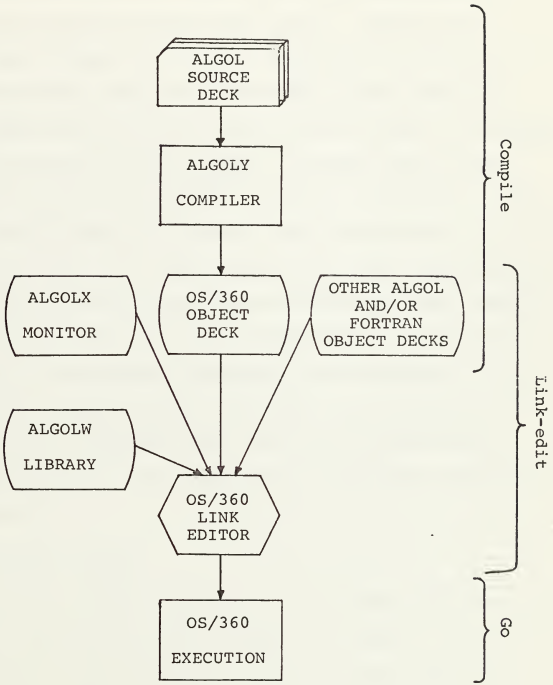
A. BACKGROUND

One of the accomplishments of this project was the successful, extensive use of linked ALGOL W programs with FORTRAN subroutines in execution core of the 360 computer. The need for this unusual arrangement arose from inherent limitations in the Stanford University version of the ALGOL compiler, which was available at the Naval Postgraduate School. The Stanford version of the ALGOL compiler was the 16 January 1972 version, as modified for local operating conditions, and was used throughout the project. Further use of the words ALGOL, ALGOLW, ALGOLX, and ALGOLY refer to that specific compiler.

A detailed description of the procedures to be followed and the limitations on such linkages are provided. The discussion applies specifically to the Naval Postgraduate School computer installation and presumes the reader is familiar with: (a) the IBM OS360/MVT operating environment, i.e., job control language [JCL]; (b) the standard IBM FORTRAN IV compiler; and (c) the Stanford ALGOL compiler. The reader is directed to the ALGOL W Reference Manual by Sites, pages 107 through 110.3 for a refresher in general ALGOL linkage design. The following discussion and Figure E-1 draw heavily upon that reference as well as the experience gained in the operationalization of the linkages.

FIGURE E-1

ALGOL COMPILE/LINK-EDIT/GO SEQUENCE



B. SUMMARY OF THE ALGOL LINKAGE DESIGN

There are two versions of the ALGOLW compiler; both use exactly the same execution code for the various phases of the compiler and for the run-time library. However, the monitor phase [ALGOLX] is slightly different for the two execution modules. The compile/load/go in-core version is called ALGOLW and is not the version which allowed for linkage with the separately compiled ALGOL or FORTRAN object decks. The compile only version [ALGOLY] produces a standard OS/360 object deck only and is the version used to allow for a linkage. In fact, this object deck output from ALGOLY can be link-edited with other object decks produced by other ALGOLY compilations as well as by standard FORTRAN IV compilations. In order to be executable, the object decks must be link-edited with the ALGOL library, the ALGOL run-time monitor [ALGOLX], and, if FORTRAN object decks are co-link-edited, the FORTRAN library. This arrangement is depicted graphically in Figure E-1.

C. THE LINKAGE PROBLEM

This computer/ALGOL combination installation suffered from a JCL inability to pass correctly more than a single ALGOLX monitor control parameter [such as ALGOL execution time limits (PARM.GO='TIME=5'), ALGOL printed page output limits (PARM.GO='PAGES=15'), or ALGOL execution-time core size availability (PARM.GO='SIZE=200K')] to the "GO" step as outlined in the reference manuals. Additionally, the format

was not as provided in the reference manuals, but rather as shown in brackets above. Each reference to time, page, and size limitations refers to the ALGOLX monitor limits and not to those of the normal OS360 limits.

The ALGOLX 'SIZE' parameter had to be overridden in almost every program written for this project because the ALGOLX monitor requests its full default value for core storage [nominally 120K] from the OS360 operating system in the "GO" step. ALGOL never "knows" how much core storage will be required in the execution phase until it is needed. This dynamic core allocation scheme became a Nemesis which resulted from having chosen ALGOL's expanded alphabetic string manipulative ability. The OS360 allocation sequence is as follows: first to the object deck(s) [ALGOL and/or FORTRAN], second to ALGOLX for operating core storage space [for which ALGOL takes all remaining core storage up to the JCL limit], and finally to the FORTRAN deck for input/output buffer space. Since there can never be any remaining core storage for the third allocation step, the result is an OS360 error message which indicates insufficient core availability. Unless and until ALGOL is restricted in its bid for core storage, FORTRAN input/output buffer space will never exist. This is the reason for the 'SIZE' parameter in ALGOL. A problem would not have existed locally had the installation JCL been able to pass the 'SIZE' parameter information correctly into the "GO" step. This it could do only if there were one parameter to be passed.

D. THE LINKAGE PROBLEM SOLUTION

It was necessary to override both 'TIME' and 'SIZE' default parameters in almost every program. To circumvent this local deficiency, a special ALGOLX monitor was created in which the ALGOLX monitor time control functions were completely disabled. This version of the monitor was stored semi-permanently on disk storage. ALGOLX monitor page limitations [nominal default is nine pages] never presented a problem because there never was a need for both the 'SIZE' and the 'PAGE' parameters to be overridden in the same program.

E. INPUT/OUTPUT STANDARDIZATION

In order to simplify the increasingly complex job control language, ALGOLX monitor situation, and the ALGOL/FORTRAN interfacing, a standardized FORTRAN IV G source deck was compiled and the object deck was placed on the SYS003 data disk. This FORTRAN source deck is shown as Figure E-2. The resulting object deck, called FOALG3 [FORTRAN Object deck for ALGOL programs, version 3], was then used uniformly throughout the computerization process. FOALG3 had the ability to read three different input files from any medium ["READ11", "READ12", and "READ13"], to write three different output files on any medium ["RITE14", "RITE15", and "RITE16"], to rewind each of those six logical files ["RWND11", "RWND12", "RWND13", "RWND14", "RWND15", and "RWND16"], and to punch cards ["PUNCH"]. Without exception, all images that were passed between the ALGOL source programs and the FORTRAN subroutines were 80 alphanumeric

FIGURE E-2

FORTRAN SOURCE PROGRAM FOR
STANDARDIZED INPUT/OUTPUT FUNCTIONS

```
//HUFORT JOB (2600,0578,YS42),'HUBER,E.W.'
// EXEC FORTGCD
//FORT.SYSIN DD *
      SUBROUTINE READ11 (ARRAY1)
      DIMENSION ARRAY1 (20)
   11 FORMAT (20A4)
      READ (11,11) ARRAY1
      RETURN
      END
      SUBROUTINE READ12 (ARRAY2)
      DIMENSION ARRAY2 (20)
   12 FORMAT (20A4)
      READ (12,12) ARRAY2
      RETURN
      END
      SUBROUTINE READ13 (ARRAY3)
      DIMENSION ARRAY3 (20)
   13 FORMAT (20A4)
      READ (13,13) ARRAY3
      RETURN
      END
      SUBROUTINE RITE14 (ARRAY4)
      DIMENSION ARRAY4 (20)
   14 FORMAT (20A4)
      WRITE (14,14) ARRAY4
      RETURN
      END
      SUBROUTINE RITE15 (ARRAY5)
      DIMENSION ARRAY5 (20)
   15 FORMAT (20A4)
      WRITE (15,15) ARRAY5
      RETURN
      END
      SUBROUTINE RITE16 (ARRAY6)
      DIMENSION ARRAY6 (20)
   16 FORMAT (20A4)
      WRITE (16,16) ARRAY6
      RETURN
      END
      SUBROUTINE RWND11
      REWIND 11
      RETURN
      END
      SUBROUTINE RWND12
      REWIND 12
      RETURN
      END
      SUBROUTINE RWND13
```

```
      REWIND13
      RETURN
      END
      SUBROUTINE RWND14
      REWIND14
      RETURN
      END
      SUBROUTINE RWND15
      REWIND 15
      RETURN
      END
      SUBROUTINE RWND16
      REWIND 16
      RETURN
      END
      SUBROUTINE PUNCH (ARRAY7)
      DIMENSION ARRAY7 (20)
      FORMAT (2A4)
   20 WRITE ( 7,20) ARRAY7
      RETURN
      END
```

FIGURE E-2 (Continued)

characters in length. Blocking factors were usually 45:1 which resulted in a 3600 character block size, the maximum allowable for a Model 2311 disk. The 10:1 block size for the standardized FORTRAN subroutine object deck was 800 characters of binary information, the maximum allowable by the OS360 link-editor program.

Advantages of standardization of all input/output functions included: less chance for error in program loading and less time required to read source and object decks at the card reader. One disadvantage of FORTRAN output under ALGOLX control was the inability to close an output file automatically after main program termination. Several solutions were available. The most commonly used approach was to output a sufficient number of blank dummy records just prior to ALGOL termination, thereby forcing any partially filled buffer records onto the output medium. A secondary method was to reduce the block size to equal the record length [i.e., 80 characters]. This prevented the problem entirely but was wasteful of disk storage space. More exotic methods could have been pursued had time permitted.

F. THE GO.FT07F001 DILEMMA

One curious aspect of this functional bootstrap approach to input/output was an inconsistent request by OS360 for a GO.FT07001 data definition card. Even though very few programs called on the FOALG3 subroutine PUNCH, more often than not spurious OS360 error situations and messages were produced and

program execution terminated. The only remedy taken was to add the standard, but "unneeded", GO.FT07F001 data definition card and restart.

G. EXAMPLE JCL DECK

A sample JCL deck including the ALGOL/FORTRAN linkage is explained here. It was used in the generation of the computer-printed DELPHI Questionnaire dated 6 November 1974. The input files were the data base cards [QCARDS] on file 11, the formatted basic letter control deck [DELITPS] on file 12, and the address label card file [MAILER] on file 13. The output files were the tailored letter in TPS format on file 14, the large address labels on file 15, and the small address labels on file 16. No cards were punched in this program.

SAMPLE JCL DECK SET-UP

```
//HUBER3 JOB (2600,0678,YS42),'HUBER,E.W.',TIME=90
(1) // EXEC ALGWCLG,PARM.GO='SIZE=220K',REGION=375K
//ALGOL.SYSIN DD *
(2) %ALGOL

      ----- remainder of ALGOL source deck here -----

/*
(3) //LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,
(3) //               DSN=S2600.ALGOLW
(4) //            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,
(4) //               VOL=SER=LINDA
```

```
(5) //            DD DISP=SHR,DSN=SYS1.FORTLIB
    //LINK.SYSPRINT DD DUMMY
(6) //LINK.SYSIN  DD UNIT 2311,VOL=SER=SYS003,DSN=S2600.FOALG3,
(6) //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
(6) //               DISP=SHR,LABEL=(,,,IN)
    /*
    //GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),
    //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),
    //               LABEL=(,,,IN),DSNAME=S2600.QCARDS
    //GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),
    //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),
    //               LABEL=(,,,IN),DSNAME=S2600.DELLTPS
    //GO.FT13F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),
    //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),
    //               LABEL=(,,,IN),DSNAME=S2600.MAILER
    //GO.FT14F001 DD UNIT=2321,VOL=SER=CEL003,DISP=(NEW,KEEP),
    //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=2000),
    //               DSNAME=S2600.TPSOUT,SPACE=(CYL,(250,10)),
    //               LABEL=RETPD=30
    //GO.FT15F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(NEW,KEEP),
    //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),
    //               DSNAME=S2600.BIGLBLS,SPACE=(CYL,(5,2)),
    //               LABEL=RETPD=30
    //GO.FT16F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(NEW,KEEP),
    //               DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),
    //               DSNAME=S2600.LTLLBLS,SPACE=(CYL,(5,2)),
    //               LABEL=RETPD=30
```

```
//GO.FT07F001 DD DUMMY
//GO.SYSIN    DD *
/*
```

Notice that ALGOL was restricted to 220K bytes of core storage, but that the entire "GO" step had 375K, a difference of 155K bytes for the exclusive use of FORTRAN [cf. fields in the execute card highlighted number (1)]. Next, notice that no ALGOL control parameters were included on the "%ALGOL" card because in the compile/load/go version of ALGOLY, there is no communications link between the compile step and the go step. The purpose of the PARM.GO parameter is to supplant that communications link for the ALGOLX monitor communications function. The two cards highlighted number (3) point the OS360 link-editor to the modified ALGOL monitor package which had the execution time control function completely disabled. The two cards following that point the link-editor to ALGOL library which was included in the execution module. Card (5) pointed the link-editor to the FORTRAN library for the FOALG3 subroutine used in the execution phase. The last three cards labelled (6) caused the FOALG3 object deck to be included in the load module also. The remaining definition cards were in the standard JCL format defining the various input and output files.

ANCILLARY DATA BASE FILES

Numerous ancillary files were generated throughout the project either to provide administrative project support or to extend the data actually contained within the data base.

A. TRAINING CARDS [NAMED TCARDS FOR JCL PURPOSES]

The TCARDS file contained the one to five numeric character training utilization codes mentioned applicable to VAR019. A breakdown of the meaning of various codes is provided in Appendix D Table D-7. The format for these cards was the sequence (case) number in card columns 1-3, one blank column, a quote character in column five followed by up to five single digit numeric codes, and then a closing quote character immediately behind the last numeric character to indicate the end of that input string. Only one case number was punched per card and only those cases with training information were included in this file. Three examples of records in this file are:

```
200 "18"
201 "3"
202 "57"
```

This file of training information was preceded by a single card which had the number of training cards included in the TCARDS file punched in card columns 1-3. The TCARDS file was physically sorted in ascending case order prior to having been placed on disk storage.

B. ADDITIONAL OUTPUT CARDS [NAMED ACARDS FOR JCL PURPOSES]

The additional output coded ACARDS file contained the one to three alphabetic character additional output code breakdown [Appendix D Table D-8] applicable to variables VAR062, VAR065, VAR070, VAR073, and VAR078. The format for these cards was sequence (case) number in card columns 1-3, one blank column, a literal 32 character transcription of the respective additional output in word form from variables VAR061, VAR064, VAR069, VAR072, and VAR077 which had been excised earlier by a special card punch program, one blank column, and then up to three single character alphabetic codes representing the coded breakdown from Appendix D Table D-8 beginning in column 38. Up to five different ACARDS could have been produced per case, one to match each possible additional output which may have been added by the respondent. Those cases which had no additional outputs required no ACARDS entry in this file. Four examples of the records on this file are:

```
200 CURRENT INTEL (OPINTEL) PRODUCTN BDI
201 COUNSELING SUBORDINATES           T
201 ESTABLISHING REQUIREMENTS         B
204 PHOTOGRAPHIC SUPPORT              ABF
```

This group of additional output codes was preceded by a single card which had the number of additional output cards included in the ACARDS file punched in card columns 1-3. The ACARDS file was sorted in ascending sequence prior to having been placed on disk storage.

C. MAILING ADDRESS CARDS [NAMED MAILER FOR JCL PURPOSES]

The mailing address MAILER card file contained from one to five cards for each Unit Identification Code (UIC) [VAR004] and provided the mailing address used for that UIC. The format for the cards in this file was the UIC right-justified with leading zeroes in card columns 1-5, a single numeric character in column six referencing the card number within that UIC's address (only one through five were valid entries in that field), and the address line began in column eleven. Columns seven through ten were blank. The maximum allowable line length was 45 alphanumeric characters. Because the address file was used in the same special TPS printing program similar to the respondent's name field, it too was coded with the special control parameters for upper and lower case printing. An example of a record on the MAILER file for UIC 00015 was:

```
000151    /COMMANDER
000152    /NAVAL /INTELLIGENCE /COMMAND
000153    /NAVAL /INTELLIGENCE /COMMAND /HQTRS
000154    2461 /EISENHOWER /AVENUE
000155    /ALEXANDRIA, /VIRGINIA 22331
```

To signal the last record on the MAILER file, a control card was added immediately after the last card of the last address record with the numbers "999999" punched in card columns one through six. This file was sorted in ascending line number order within UIC numbers prior to being placed on disk storage.

D. INTERVIEW DATA CARDS [NAMED ICARDS FOR JCL PURPOSES]

Information coded from the interview data was punched into cards with only one educational area coded per card. The coding form used for the card file is shown in Appendix B Sample D. Because the majority of interview cases resulted in a few and variable number of academic requirements, it was easier for card punching reasons to submit only those fields actually needed or used. A maximum of 46 ICARDS could have been coded for each interview, one corresponding to each academic area. Although the coding scheme appears rather complex, it should be apparent that it was actually very simple. Card columns 1-3 contained the case number, column four indicated the researcher primarily responsible for having coded the interview data, columns 5-7 contained the academic code from Appendix D Table D-10, column eight contained a single numeric digit ("1", "2", "3", or "4" from Appendix D Table D-9) which indicated the educational proficiency level used in the interviewee's billet, and column nine contained a similar digit which indicated the proficiency needed for that billet. Three sample ICARDS records are shown below:

```
200201122
200201313
200202113
```

The last card in the ICARDS file was a dummy end-of-file indicator with "999999999" punched in column 1-9. This file was sorted in ascending order by case number prior to being placed on disk storage.

E. MERGED QUESTIONNAIRE/INTERVIEW FILE
[NAMED QICARDS FOR JCL PURPOSES]

The basic questionnaire file, i.e., the seven card data base file already defined as the QCARDS, was merged with transformed ICARDS file data to form the QICARDS file. This file represented the original data collected from the initial 19 August 1974 questionnaire and the interview data collected during the September interviews. The QCARDS were unchanged. The ICARDS were transformed by a matrix manipulation ALGOL source program into two card images; the first card image contained a 46 character string of numbers that represented the educational proficiency used by each interviewee with control information in columns 74-80, the second card image was similar to the first except that it referred to the educational proficiency needed by each interviewee and with a slightly different code in the control block was in the following format: column 74 contained the coder number of the researcher having primary responsibility for the interview data; columns 75-76 contained a sub-card number, "01" for the first card and "02" for the second card; columns 77-79 contained the ubiquitous sequence number; and column 80 contained the card number which was an "8" in all instances. All appendages to the basic data base QCARDS files were numbered as card number eight; the sub-card numbers in columns 75-76 were then utilized to differentiate between all of the appended cards. This sub-card number scheme was used

throughout the remainder of the computerization process.

The first four QICARDS appeared thus:

```
                         ...
2111133231111222211323343333433332323333311333     2012008
2131344442232333322434444444444444434444433444     2012008
                         ...
2111133221111112111223232222432131323333212322     2012018
3131344332233223111334343333443242434444334433     2022018
                         ...
```

with the intervening seven QCARDS for case number 200 immediately preceding the first group and the seven QCARDS for case number 201 immediately preceding the second group. Coder number two applied in both of these examples. No interview data was specified by a string of 9's in columns 1-46, a nine in column 74, and the remainder of the control block information in the standard format as described above.

Since these two cards became part of the permanent data base file, the individual variables of each card were assigned sequential variable numbers similar to those assigned for the QCARDS file. Valid educational proficiency levels is presented in Appendix D Table D-10. QCARD variables (087 through 186) are listed as declared in Appendix D.

F. THE TEXT PROCESSING SYSTEM (TPS) FORMATTED LETTER FOR THE 6 NOVEMBER 1974 COMPUTER GENERATED DELPHI QUESTIONNAIRE [NAMED DELlTPS FOR JCL PURPOSES]

The control deck utilized to produce the computerized tailor-made DELPHI Questionnaire dated 6 November 1974 (refer to Appendix B Sample E) was written using normal TPS formatting instructions. A copy of general TPS instructions is included in Appendix F Sample F. The two minor modifications made in this input stream were: (a) the restriction of the formatted statements to card columns 11-80, and (b) the addition of sequenced parameters in columns seven through ten which were used for passing control information between the data base program and the TPS printing input file. During the planning stage, the amount of control space required was unknown, so ten characters were set aside. These were the first ten columns of the card. An asterisk in column ten was the signal to transfer program control to the data base program (written in ALGOL with FORTRAN input/output subroutines), either to insert or to delete information. A three digit number preceding the asterisk was a specified "programmed block number" used to tell the ALGOL source program what functions were to be performed. A listing of the DELlTPS card file is in Appendix F Sample H.

G. THE 6 NOVEMBER 1974 DELPHI CARDS [NAMED DlCARDS FOR JCL PURPOSES]

The data resulting from the 6 November 1974 DELPHI Questionniare concerning intelligence related outputs was keypunched

directly from the response form provided to the respondent [Appendix B Sample E]. A control block of information similar to that on the QICARDS was added. After having merged the QCARDS and the D1CARDS to produce the QICARDS file, a second merging program was executed to append the D1CARDS, thereby producing the QID1CARD file which was the input file for an SPSS analysis program. The D1CARDS format was 20 three digit fields beginning in card column one, each field corresponding to the revised intelligence related outputs' a flag code in column 72 designated the case as requiring specialized external handling [usually as a result of the respondent having changed billets since the previous questionnaire was received]; the answer to the Defense Intelligence School graduate question in column 73; a code signifying receipt of the DELPHI Questionnaire in column 74; and the sub-block of control information also included. The same list of educational proficiency codes contained in Appendix D Table D-10 applied to these variables as those contained in interview ICARDS file. The D2CARDS were mechanically sorted in ascending order by subcard number within case number prior to having been placed on disk storage. The merged questionnaire QCARDS, interview ICARDS, first DELPHI D1CARDS, and these second DELPHI D2CARDS were called the QID12CDS for JCL purposes.

Again, as an input into the data base file, each variable in this D2CARDS file was numbered in the standard format. These variable declarations are listed in Appendix D (VAR213 through VAR347).

H. THE 17 DECEMBER 1974 DELPHI CARDS
[NAMED D2CARDS FOR JCL PURPOSES]

Information returned in the 17 December 1974 DELPHI Questionnaire concerning educational proficiency levels was keypunched directly from the response form supplied to the respondent [Appendix B Sample C]. Two cards per response were generated for data base use. The first card contained educational proficiency information for the three college algebra entries [used, needed, and future educational proficiency codes] through the three entries for naval science collection systems levels. Another special case flag field was also added to this card as well as the block of control information similar to previous cards. The second card in this file contained the three entries for educational proficiency in national security/threat/net assessment through the remainder of the form, i.e., organization of thought, with the card number ("03"), the sequence or case number, and the card number as usual in columns 75-80.

Again, because this information was an input to the data base file, each variable was numbered in the standard format as designated and listed in Appendix D (VAR 187 through VAR 212).

DATA FILE VALIDATION

A. QCARDS VALIDATION

An ALGOL source program was written to make exhaustive reasonability tests on those QCARD variables which could be tested. If minimum or maximum values were exceeded or if values did not correlate with other variables, an error message was produced. The input file was the QCARDS file and the program's output was a sequential listing of error messages. This program, named VALIDATE for JCL purposes, is listed in Appendix F Sample P; a sample output from the VALIDATE program is also given. The following is a list of variables and the reasonability limits used against those variables.

1. VAR004 (Unit Identification Code) had to be one of those specified in Appendix D Table D-1.

2. VAR005 (CONUS/OVERSEAS CODE) had to be one of those lsited in Appendix D Table D-2.

3. VAR006 (State/Country Code) had to be one of those listed in Appendix D Table D-3.

4. VAR007 (Coder Number Code) values were arbitrarily assigned in the manner shown in Appendix D Table D-4. Further, the five researchers were assigned a block of two hundred sequence or case numbers (VAR008, etc.). LCDR Mount was assigned 001 through 199; LT Foster, 200 through 399; LT Bickell, 400 through 599; LT Huber, 600 through 799; and

LT Watson, 800 through 998. VAR007 was then verified by looking at the sequency number assigned to the case as well as being one of those values listed in Appendix D Table D-4. There were some cases which did not follow this coder/case number correlation scheme, but error messages were produced anyway just as a reminder.

5. VAR008/VAR023/VAR059/VAR067/VAR075/VAR081/VAR085 (Sequence or case numbers for each of the seven card images) had to be the same throughout the entire case. This validation test was the first to help in tracing down the situation where either too many or too few cards had been inserted for each case, a very important factor required in all subsequent computer programs.

6. VAR009 (Card One Number) had to be a "1".

7. VAR011 (Respondent's Rank) had to be one of those values listed in Appendix D Table D-5.

8. VAR012 (Respondent's Age) was tested for reasonability, i.e., between 30 and 55 years of age.

9. VAR013 (Respondent's Present Designator)/VAR014 (Respondent's Next Previous Designator)/VAR015 (Respondent's First Designator) variables were checked against the following list: 110x, 111x, 112x, 113x, 131x, 132x, 135x, 161x, 163x, 662x, 663x, 000x, and 999x. Although other designators were not necessarily invalid, it was decided that the majority of all designators would pass the test against the above list. The fourth digit of the designator code was truncated prior to conducting the test.

10. VAR018 (Respondent's Educational Level) was verified to be one of those values listed in Appendix D Table D-6.

11. VAR020 (Respondent's First Intelligence Billet Code) had to be a "0", "1", or "9".

12. VAR021 (Number Years Previous Intelligence Experience) was checked for limits of zero and twenty-five.

13. VAR022 (Number of Months in Present Billet) was checked for limits of zero and 48 months.

14. VAR024 (Card Two Number) had to be a "2".

15. VAR025/VAR027/VAR029/VAR031/VAR033/VAR035/VAR037/VAR039/VAR041/VAR043/VAR045/VAR047/VAR049/VAR051/VAR053/VAR055/VAR057/VAR063/VAR066/VAR071/VAR074/VAR079/VAR080 (each of the various percentages of time spent in each intelligence output) were summed and a warning message issued if that sum were not equal to 100%.

16. VAR026/VAR028/VAR030/VAR032/VAR034/VAR036/VAR038/VAR040/VAR042/VAR044/VAR046/VAR048/VAR050/VAR052/VAR054/VAR056/VAR058 (each of the validity codes associated with the various intelligence output percentages) had to be a "0", "1", or "9". Only one error message was issued regardless of the number of erroneous variables.

17. VAR060 (Card Three Number) had to be a "3".

18. VAR068 (Card Four Number) had to be a "4".

19. VAR076 (Card Five Number) had to be a "5".

20. VAR082 (Card Six Number) had to be a "6".

21. VAR084 (Comments Continuation Code) had to be a "0", "1", or a "2".

22. VAR086 (Card Seven Number) had to be a "7".

Some individual visual checking of variable values was included in this validation process. Corrections were effected by repunching the affected card(s). Upon completion of the validation the file was placed on disk storage.

B. TCARDS VALIDATION

The TCARDS file was listed using autility print program. Validity was visually checked, card-by-card, against the original list from which the card were punched. Corrections were made by repunching the affected card(s). After validation, corrected TCARDS file was placed on disk storage.

C. ACARDS VALIDATION

The ACARDS file was also listed using a utility print program. It was visually checked for validity, card-by-card, against the original list from which the cards were punched. Corrections were made by repunching the affected card(s). The corrected ACARDS file was then placed on disk storage.

D. MAILER VALIDATION

The MAILER file was listed using a utility print program. After a visual card-by-card validity check, corrections were made by repunching the affected card(s). The corrected MAILER file was then placed on disk storage. Additional corrections were made after returns from some of the questionnaires

indicated corrections and/or modifications were necessary. Every change in the MAILER file was followed by another card image to disk storage program.

E. ICARDS VALIDATION

The ICARDS file was listed using a utility print program and was visually checked for validity, card-by-card, against the original list from which the cards were punched. Corrections were made by repunching the affected card(s). After validation, the corrected ICARDS file was placed on disk storage. Additionally, the ALGOL source program which was written to insert the ICARDS file into the data base file performed validity checks against two different fields. First, each of the two single character educational proficiency codes was checked to be sure it was one of those listed in Appendix D Table D-9. Also, the educational area codes were verified to be sure they were among those listed in Appendix D Table D-10. Additional corrections were made by repunching the affected card(s) and re-executing the ICARDS merger program.

F. QCARDS REVALIDATION

Upon completion of all of the above checks and at the time the QCARDS, the ACARDS, and the TCARDS files were merged, an ALGOL source program was executed. It rechecked and internally modified certain data fields. This step resulted in a more uniform data base structure and was necessary because of coder differences in instances where data was either missing or some

other anomalous situation existed. The merged QCARDS/ACARDS/TCARDS file was machine punched into an updated "clean" data base QCARDS file. This new QCARDS file was then used in all subsequent data base programs.

The variables listed below were checked and modified as indicated. A lower case "b" represents an alphabetic blank character.

1. If VAR002 (Billet Sequence Code) was five blank characters, it was changed to "99999".

2. If VAR011 (Respondent's Rank) was a "1" indicating a civilian, VAR013/VAR014/VAR015 (Designator Variables) were changed to "9999".

3. If VAR014 (Respondent's Previous Designator) was all blank characters, then it was replaced with "9999".

4. If VAR015 (Respondent's First Designator) was all blank characters, then it was replaced with "9999".

5. If VAR016 (Billet Subspecialty Code) was "NONEb", then it was changed to "00000"; if VAR016 was "bbbbb" or NAbbb" then it was changed to "99999".

6. If VAR017 (Respondent's Subspecialty Code) was "NONEb" then it was changed to "00000"; if VAR017 was "bbbbb" or "NAbbb" then it was changed to "99999".

7. VAR018 (Educational Level) was changed from a blank to "9" if necessary.

8. VAR021 (Number Years Previous Intelligence Experience) was changed to "99" if the field was blank.

9. VAR022 (Number of Months in Present Billet) was changed to "99" if the field was blank.

10. VAR025/VAR027/VAR029/VAR031/VAR033/VAR035/VAR037/VAR/039/VAR041/VAR043/VAR045/VAR047/VAR049/VAR051/VAR053/VAR055/VAR057 (Percentages of time spent on various intelligence related outputs) each were changed to "999" if the field was all blank.

11. VAR026/VAR028/VAR030/VAR032/VAR034/VAR036/VAR038/VAR040/VAR042/VAR044/VAR046/VAR048/VAR050/VAR052/VAR054/VAR056/VAR058 (Validity of intelligence output codes) each were changed to "9" if the field were blank.

12. If VAR063 (Percentage time devoted to first additional output) was blank, then it was changed according to the following test: if VAR061 (First Additional Output Wording) was blank, then VAR063 was made "000", otherwise it was changed to "999".

13. If VAR066 (Percentage time devoted to second additional output) was blank, then it was changed according to the following test: if VAR064 (Second Additional Output Wording) was blank, then VAR066 was made "000", otherwise it was changed to "999".

14. If VAR071 (Percentage time devoted to third additional output) was blank, then it was changed according to the following test: if VAR069 (Third Additional Output Wording) was blank, then VAR071 was made "000", otherwise it was changed to "999".

15. If VAR074 (Percentage time devoted to fourth additional output) was blank, then it was changed according to the following test: if VAR072 (Fourth Additional Output Wording) was blank, then VAR074 was made "000", otherwise it was changed to "999".

16. If VAR079 (Percentage time devoted to fifth additional output) was blank, then it was changed according to the following test: if VAR077 (Fifth Additional Output Wording) was blank, then VAR079 was made "000", otherwise it was changed to "999".

17. If VAR080 (Percentage time devoted to non-intelligence outputs) was blank, then it was changed to "000".

18. If VAR084 (Comments Continuation Code) was blank, then it was changed to "0" if VAR083 (Comments) was blank or changed to "1" if VAR083 was not blank.

G. QICARDS VALIDATION

Validation of the QICARDS file was not necessary because it resulted from a programmed merger of two files that had already been validated. QICARDS was a composite of the QCARDS and the ICARDS files.

H. DlCARDS VALIDATION

The DlCARDS file was listed using an ALGOL source program written for that purpose. That program is shown in Appendix F Sample A with a sample printed output. The control block information was printed in a readable format along with each

of the twenty output percentages on a separate line. This program also checked to insure all twenty output percentages totalled 100%, as well as the following checks:

1. VAR207 (Special Case Flag), cc 72, had to be a "0" or "1".

2. VAR208 (Defense Intelligence School Graduate Status), cc 73, had to be a "0", "1", or "2".

3. VAR209 (DELPHI Response Validity Code), cc 74, had to be a "1".

4. VAR210 (Card Eight, Sub-card 03 Number), cc 75-76, had to be "03".

5. VAR212 (Card 8-03 Number), cc 80, had to be "8".

This printout was then visually checked page-by-page against the original DELPHI Questionnaire from which the D1CARDS were punched. Corrections were made by repunching the affected card(s). The corrected D1CARDS file was then placed on disk storage.

I. D2CARDS VALIDATION

The D2CARDS file was listed using an ALGOL source program written for that purpose. That program is shown in Appendix F Sample Q with a sample printed output. The control block information was printed in a readable format with each of the 42 groups of three educational proficiency level codes on a separate line. This program also checked to insure each educational proficiency code was one of those listed in Appendix D Table D-9 as well as the following checks:

1. There had to be exactly two cards for each sequence or case number contained in the file and those two cards had to be in the proper order.

2. VAR273 (Special Case Flag), card 04 cc 61, had to be a "0" or "1".

3. VAR274 (DELPHI Response Validity Code), card 04 cc 74, had to be a "1".

4. VAR275 (Card Eight, Sub-card 04, Number), card 04 cc 75-76, had to be a "04".

5. VAR277 (Card 8-04 Number), card 04 cc 80, had to be an "8".

6. VAR344 (DELPHI Response Validity Code), card 05 cc 74, had to be a "1".

7. VAR345 (Card Eight, Sub-card 05, Number), card 05 cc 75-76, had to be a "05".

8. VAR347 (Card 8-05 Number), card 05 cc 80, had to be an "8".

This printout was then visually checked page-by-page against the original DELPHI Questionnaire from which the D2CARDS were punched. Corrections were made by repunching the affected card(s). The corrected D2CARDS file was then placed on disk storage.

J. DELlTPS VALIDATION

Validation was not applicable to the formatted letter cards which were used as the input file for the computer generated DELPHI Questionnaire.

PRINTING OF DATA FILES

An ALGOL source program was written to print, in a readable format, each variable of the basic data base QCARDS file. This program, listed in Appendix F Sample B was named DISPLAY for JCL purposes and was stored on the data disk because of its frequent use. The input file for the DISPLAY program was the QCARDS file and the program's output is exhibited in Appendix F Sample C. All information contained in the QCARDS file was displayed.

Other than the utility and special ALGOL programs used in data file validation and the DISPLAY program mentioned above, no other printing of the data base was accomplished by other than standardized utility and packaged programs. It should be noted that SPSS programs had the facility for printing variables from within the data base. This feature was used to the maximum extent possible.

DATA FILE GENERATION CHRONOLOGY

A. BACKGROUND

The following explanation traces, step-by-step, the file generation procedures. Each step utilizes the data declarations already presented and gradually builds toward a chronological construction/utilization analysis. Each step builds sequentially from the previous steps. The starting point is the basic data base module, i.e., the QCARDS file.

B. ADDITION OF TRAINING AND ADDITIONAL OUTPUT DATA

1. Discussion

The respondents' training information [VAR019], and the five additional output code variables [VAR062, VAR065, VAR070, VAR07:, and VAR078] could not be coded at the time of the initial questionnaire coding. This was due to the fact that no general classifications were possible without having first considered all of the different types of code values needed. Delayed inputting of these variables resulted in a more precise evaluation of the specific requirements of those six variables.

2. Execution

An ALGOL source program was written which merged the three card image disk files QCARDS, ACARDS, and TCARDS. Only one output file was generated by this program. That output was an updated version of the QCARDS data file in the form of a newly punched card deck. The training information from the

TCARDS file and the additional output codes from the ACARDS file were inserted for each case prior to generating the new card deck. This program was also used for the revalidation process of the QCARDS file, a procedure already discussed. The TCARDS and the ACARDS files were unchanged by this program. The updated QCARDS punch deck was then placed on disk storage thereby overlaying the original QCARDS file. It was this new QCARDS file that was the input file for subsequent data base programs. The program used for this revalidation and merger was written in ALGOL and used FORTRAN input/output subroutines described in the discussion of "FOALG3". Appendix E Figure E-2 and Appendix F Sample D apply to these two programs.

C. CREATION OF THE FIRST STATISTICAL PACKAGE

After the updated QCARDS punched during the revalidation and merger program were placed on disk, the first SPSS statistical file creation program was executed. Using the "SAVE FILE" feature of SPSS, all 86 variables associated with the QCARDS file were retained on disk storage for subsequent analysis. This SPSS file was named the INTELLA file for JCL and SPSS purposes and is listed in Appendix F Sample E.

D. COMPUTER PRINTED DELPHI QUESTIONNAIRE

1. Discussion

The 6 November 1974 DELPHI "A2" was concerned with further defining that amount of time which was spent on each of the intelligence related outputs. The iterative DELPHI technique required a controlled feedback. In order to

provide each respondent with information concerning his previous response, this data could have been extracted manually from the coding forms or electronically from the QCARDS file through the use of the computer. Further, a method was required to verify the biographical information which had been coded in the basic data base file. As should now be obvious, each DELPHI Questionnaire was a unique entity. This uniqueness precluded the use of normal printing services and necessitated computer printing. The sample population was entirely too large to consider manual preparation. Although it may be argued, and with some justification, that excess complexity in this hardcopy preparation cycle overrode any accrued advantages in the DELPHI technique, two facts must be remembered: (a) the burden was to be placed on the computer, and (b) it was believed that high response ratios could only be achieved by communicating on a personal level with the sample population. Once the use of this DELPHI technique with such a large sample population was proven feasible, was debugged, and was made operational, a new and more effective method would be available to others attempting similar projects.

2. Assemblying the DELPHI Questionnaire

After the DELPHI "A2" format was established, the basic letter was transposed into punched cards using the TPS coding scheme described in Appendix F Sample F. Only columns 11-80 were used for this textual material. For each place in the formatted letter which required information from or deletion

of certain textual material based on the data base variables, there was a card coded with a sequentially numbered program entry block. This program entry block number was the three digit number in card columns seven through nine, coupled with the program control signal, an asterisk, punched in column ten. An ALGOL program, listed in Appendix F Sample G, then accomplished a specific transformation based on Boolean decisions from data base information. Each QCARDS case was read in an ALGOL control, and then the ALGOL program reconciled the formatted letter against each case. The final TPS formatted letter card file used for this program was labelled DELlTPS for JCL purposes and is listed in Appendix F Sample H. The additional support files utilized in the ALGOL program were the MAILER file for addressing information, and the QCARDS file.

3. Printing the DELPHI Output

The primary output from this ALGOL/FORTRAN/TPS combination was a file of over 100,000 card images which was used in a normal TPS printing program on unruled bond paper. Approximately 1400 pages of upper and lower case DELPHI Questionnaires were printed. Example DELPHI Questionnaires are shown in Appendix B Sample E. It is interesting to note that this printer file was the only one which was not contained on the SYS003 disk file. It was too large to fit on the 200 cylinders of a Model 2311 disk unit, even with the maximum blocking factor available. The Model 2321 Data Cell storage equipment was used for this file.

Two secondary files were also generated during the preparation of the DELPHI Questionnaire. These were for the two address labels used on the mailing and return envelopes. Four labels were produced per DELPHI Questionnaire: one large and one small label each with the respondent's command name and mailing address and with the respondent's name included on the larger of the two; and one large and one small address label each with the Naval Postgraduate School's address. The three digit sequence number was included on each address label as an extra precaution for questionnaire identification should the respondent's name accidentally be removed from the body of the questionnaire. The resulting questionnaire was the ultimate in simplicity since each respondent was only required to fill in the information specifically requested. He then returned the DELPHI in the self-addressed envelope provided. The labels produced were of the machine printed adhesive, press-to-apply variety. The large labels were Federal Stock Number [FSN] 7530-082-2662; the smaller labels were FSN 7530-082-2661. The FORTRAN program used for printing the labels and sample labels are shown in Appendix F Sample I.

E. INTERVIEW DATA INSERTION

1. Discussion

The QCARDS file with seven card images per case was merged with the variable length ICARDS file to produce the

QICARDS file. This new file contained exactly nine cards per case: the basic seven card base with two formatted interview data cards for each case appended.

2. Execution

An ALGOL source program, Appendix F Sample J, was written to read each QCARDS case and duplicate that seven card image block identically on an output file using the FOALG3 input/output FORTRAN subroutines (Figure E-2). The ICARDS file was then rewound and searched card-by-card for any and all records which had the same sequence or case number. If no ICARDS image was found, a dummy 46x2 education matrix was generated with control block information added for continuity. Two dummy educational proficiency level card images were then appended to the output file. This dummy matrix was essentially filled with "9's". If at least one ICARDS entry was found for the case being processed, this same 46x2 educational proficiency level matrix was constructed using all applicable ICARDS images. Any unused educational codes were forced to a "1" code indicating an unused or unneeded level. Two valid card images were then appended to the output file. A single ICARDS for the case being processed was sufficient to indicate that an interview had taken place. A dummy education matrix was signified by a "9" value for VAR133 and VAR183 [Interview Coder Number variables], whereas a valid education matrix resulted in those two variables containing a valid researcher code number from Appendix D Table D-4.

F. CREATION OF THE SECOND STATISTICAL PACKAGE

After the merged QCARDS/ICARDS file was available on the data disk, the second SPSS statistical file creation program was executed. Using the "SAVE FILE" feature of SPSS, all 186 variables associated the QICARDS file were retained on disk storage for subsequent analysis. This SPSS file was named the INTELLB file for JCL and SPSS purposes and is listed in Appendix F Sample K.

G. SECOND DELPHI QUESTIONNAIRE MAILING LABEL PREPARATION

1. Discussion

The 17 December 1974 DELPHI "B" concerned the current and changing educational requirements of naval intelligence. This DELPHI Questionnaire was produced using regular printing services of the Educational Media Department at the Naval Postgraduate School. A copy of this questionnaire is shown in Appendix B Sample C. The large space between the date and the first paragraph was used for large address labels which had the command name and mailing address printed on the upper lines, and the persons' name in a "Greeting Format" on the bottom line.

2. Execution

The ALGOL program logic used to print the computerized DELPHI Questionnaire was extracted and slightly modified for the preparation of these lables. Again, two different size labels were produced. As each QCARDS case was read, three large labels and two small labels were produced. The first

four labels were similar to those produced in previous programs. The additional fifth label was the "Greeting Format"; e.g., the last line read "DEAR LCDR JONES:".

The only two input files needed for this ALGOL program were the QCARDS and the MAILER files. Printing was accomplished by the same simple FORTRAN program used in earlier programs and is shown in Appendix F Sample I.

H. 6 NOVEMBER 1974 DELPHI DATA INSERTION

1. Discussion

The QICARDS file with nine card images per case was merged with the DlCARDS which resulted from the 6 November 1974 intelligence outputs DELPHI Questionnaire. This new file, named the QIDlCDS file, contained ten card images per case.

2. Execution

An ALGOL source program, Appendix F Sample L was written to read each QICARDS case and duplicate that nine card image block identically on an output file using the FOALG3 input/output FORTRAN subroutines (Figure E-2). When necessary, the DlCARDS file was rewound, and then that file was searched card-by-card for a card image with the same sequence number. If no DlCARDS image was found, a dummy record was generated internally with control block information added for continuity and then this dummy record was placed on the output file. A dummy record was essentially all "9's" with

VAR209 becoming a "0" value to indicate a dummy record. If a D1CARDS image was found for the sequence number being processed, that record was placed on the output file without being altered. VAR209 was a "1" in those instances.

I. CREATION OF THE THIRD STATISTICAL PACKAGE

After the merged QICARDS/D1CARDS file was available on the data disk, the third SPSS statistical file creation program was executed. Using the "SAVE FILE" feature of SPSS, all 212 variables associated with the QID1CDS file were retained on disk storage for subsequent analysis. This SPSS file was named the INTELLC file for JCL and SPSS purposes and is listed in Appendix F Sample M.

J. 17 DECEMBER 1974 DELPHI DATA INSERTION

1. Discussion

The QID1CDS file with ten card images per case was merged with the D2CARDS which resulted from the 17 December 1974 educational proficiency level DELPHI "B". This new file, named the QID12CDS file, contained twelve card images per case.

2. Execution

An ALGOL source program, Appendix F Sample N was written to read each QID1CDS case and duplicate that ten card image block identically on an output file using the FOALG3 input/output FORTRAN subroutines (Figure E-2). When necessary, the D2CARDS file was rewound, and then that file

was searched two cards at a time for a match with the same sequence number that was being processed. If no D2CARDS images were found, two dummy records were generated internally with control block information added for continuity. These two dummy records were then placed on the output file. The dummy records were essentially all "9's" with VAR274 and VAR344 becoming a "0" to indicate a set of dummy records were entered in the file for that case. If the D2CARDS file contained a match for the case, those two records were placed on the output file without being altered. VAR274 and VAR344 were a "1" in those instances.

K. CREATION OF THE FOURTH STATISTICAL PACKAGE

After the merged QIDlCDS/D2CARDS file was available on the data disk, the fourth SPSS statistical file creation program was executed. Using the "SAVE FILE" feature of SPSS, all 347 variables associated with the QIDl2CDS file were retained on disk storage for subsequent analysis. This SPSS file was named the INTELLD file for JCL and SPSS purposes and is listed in Appendix F Sample O.

L. CLOSURE OF THE DATA FILES

Upon completion of the initial analysis of the data and return of the data disk to the computer center for other users, all files of historical interest were punched onto cards. The punched cards were transferred to the custody of the Naval Intelligence Curriculum Officer (Code 382) at the

Naval Postgraduate School. Additionally, the INTELLD file was cosmetically cleaned-up, renamed the INTELL file, and then transferred to tape for storage. All information received from the respondents through 28 February 1975 was placed in the final INTELL statistical package. The program and file listings required to reconstruct the entire data base are contained within the appendices of this thesis. An 80 column listing of the last working file, the QID12CDS file, is contained in Appendix F Sample P with only the researchers' comments [VAR083, card number seven, card columns 1-75] deleted.

APPENDIX F

SAMPLE A

ALGOL SOURCE PROGRAM TO PRINT AND VERIFY D1CARDS, WITH SAMPLE OUTPUT

```
//HUBER JOB (2600,0578,YS42),'HUBER,E.W.'
// EXEC ALGOLW
//SYSPRINT DD SYSOUT=D,SPACE=(CYL,(4,1))
//SYSIN DD *
%ALGOL TIME=20,PAGES=300
BEGIN
STRING (80) BUFFER;
INTEGER CTR;

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
   BEGIN INTEGER INTVALUE, POSITION;
   INTVALUE := POSITION := 0;
   WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(J|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;

PROCEDURE BLANKLINES; FOR X := 1, 2 DO WRITE (" ");

READCARD (BUFFER);
WHILE BUFFER(71|9) ¬= "999999999" DO
   BEGIN
   IOCONTROL (3);
   WRITE ("CASE NUMBER ", BUFFER(76|3));
   IF BUFFER(71|1) = "1" THEN WRITEON (" FLAGGED SPECIAL CASE");
   BLANKLINES;
   WRITE (IF BUFFER(72|1) = "0" THEN "DIS QUESTION NOT ASKED" ELSE
      IF BUFFER(72|1) = "1" THEN "NEGATIVE RESPONSE TO DIS QUESTION"
      ELSE IF BUFFER(72|1) = "2" THEN "AFFIRM RESPONSE TO DIS QUESTION"
      ELSE "INVALID DIS STATUS CODE");
   BLANKLINES;
   CTR := 0;
   FOR X := 0 STEP 3 UNTIL 57 DO
      BEGIN
      WRITE (BUFFER(X|3));
      WRITE (" ");
      CTR := CTR + CONVERT(BUFFER(X|3));
      END;
   BLANKLINES;
   IF CTR ¬= 100 THEN WRITE ("OUTPUTS DON'T EQUAL 100%");
   IF (BUFFER(73|3) ¬= "103") OR (BUFFER(79|1) ¬= "8") THEN
      WRITE ("INVALID CONTROL BLOCK INFORMATION");
   READCARD (BUFFER);
   END;
END.
%EOF
```

CASE NUMBER 203

DIS QUESTION NOT ASKED

013
012
000
005
008
007
002
000
025
005
000
000
000
000
010
003
002
005
000
003

CASE NUMBER 205

AFFIRM RESPONSE TO DIS QUESTION

010
015
005
015
005
015
000
000
000
035
000
000
000
000
000
000
000
000
000
000

CASE NUMBER 215

NEGATIVE RESPONSE TO DIS QUESTION

015
015
002
015
002
005
005
000
003
003
000
001
002
002
002
000
005
000
020
005

OUTPUTS DON'T EQUAL 100%

CASE NUMBER 223 FLAGGED SPECIAL CASE

DIS QUESTION NOT ASKED

000
040
015
020
010
000
000
000
000
000
000
000
000
000
000
015
000
000
000
000
000

CASE NUMBER 510 FLAGGED SPECIAL CASE

INVALID DIS STATUS CODE

999
999
999
999
999
999
999
999
999
999
999
999
999
999
999
999
999
999
999
999

OUTPUTS DON'T EQUAL 100%

APPENDIX F

SAMPLE B

ALGOL SOURCE PROGRAM TO DISPLAY BASIC DATA BASE CARDS

```
//HUBER001 JOB (2600,0678,YS42),'HUBER,E.W.',TIME=1
// EXEC ALGWCLG,REGION=150K,PARM.GO='P=500'
//ALGOL.SYSIN DD *
%ALGOL TIME=60,PAGES=500,SIZE=150K
BEGIN
STRING (25) VAR001;
STRING (37) VAR003;
STRING (40) VAR010;
STRING (32) VAR061, VAR064, VAR069, VAR072, VAR077;
STRING (75) VAR083;
STRING (1) VAR005A, VAR007A, VAR009A, VAR011A, VAR018A, VAR020A,
   VAR024A, VAR026A, VAR028A, VAR030A, VAR032A, VAR034A, VAR036A,
   VAR038A, VAR040A, VAR042A, VAR044A, VAR046A, VAR048A, VAR050A,
   VAR052A, VAR054A, VAR056A, VAR058A, VAR060A, VAR068A, VAR076A,
   VAR082A, VAR084A, VAR086A;
STRING (2) VAR006, VAR012A, VAR021A, VAR022A;
STRING (3) VAR008A, VAR023A, VAR025A, VAR027A, VAR029A, VAR031A,
   VAR033A, VAR035A, VAR037A, VAR039A, VAR041A, VAR043A, VAR045A,
   VAR047A, VAR049A, VAR051A, VAR053A, VAR055A, VAR057A, VAR059A,
   VAR062A, VAR063A, VAR065A, VAR066A, VAR067A, VAR070A, VAR071A,
   VAR073A, VAR074A, VAR075A, VAR078A, VAR079A, VAR080A, VAR081A,
   VAR085A;
STRING (4) VAR013A, VAR014A, VAR015A;
STRING (5) VAR002A, VAR004A, VAR016, VAR017, VAR019;
INTEGER VAR002, VAR004, VAR005, VAR007, VAR008, VAR009,
   VAR011, VAR012, VAR013, VAR014, VAR015, VAR018, VAR020, VAR021,
   VAR022, VAR023, VAR024, VAR025, VAR026, VAR027, VAR028, VAR029,
   VAR030, VAR031, VAR032, VAR033, VAR034, VAR035, VAR036, VAR037,
   VAR038, VAR039, VAR040, VAR041, VAR042, VAR043, VAR044, VAR045,
   VAR046, VAR047, VAR048, VAR049, VAR050, VAR051, VAR052, VAR053,
   VAR054, VAR055, VAR056, VAR057, VAR058, VAR059, VAR060, VAR062,
   VAR063, VAR065, VAR066, VAR067, VAR068, VAR070, VAR071, VAR073,
   VAR074, VAR075, VAR076, VAR078, VAR079, VAR080, VAR081, VAR082,
   VAR084, VAR085, VAR086, QCASES;

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
   BEGIN INTEGER INTVALUE, POSITION;
   INTVALUE := POSITION := 0;
   WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(J|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;

PROCEDURE GETCASE;
   BEGIN IMAGE1;
   IMAGE2;
```

```
    IMAGE3;
    IMAGE4;
    IMAGE5;
    IMAGE6;
    IMAGE7;
    END;

PROCEDURE IMAGE1;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR001 := BUFFER(0|25);
    VAR002 := CONVERT (BUFFER(25|5));
    VAR002A := BUFFER(25|5);
    VAR003 := BUFFER(30|37);
    VAR004 := CONVERT (BUFFER(67|5));
    VAR004A := BUFFER(67|5);
    VAR005 := CONVERT (BUFFER(72|1));
    VAR005A := BUFFER(72|1);
    VAR006 := BUFFER (73|2);
    VAR007 := CONVERT (BUFFER(75|1));
    VAR007A := BUFFER(75|1);
    VAR008 := CONVERT (BUFFER(76|3));
    VAR008A := BUFFER(76|3);
    VAR009 := CONVERT (BUFFER(79|1));
    VAR009A := BUFFER(79|1);
    END;

PROCEDURE IMAGE2;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR010 := BUFFER(0|40);
    VAR011 := CONVERT (BUFFER(40|1));
    VAR011A := BUFFER(40|1);
    VAR012 := CONVERT (BUFFER(41|2));
    VAR012A := BUFFER(41|2);
    VAR013 := CONVERT (BUFFER(43|4));
    VAR013A := BUFFER(43|4);
    VAR014 := CONVERT (BUFFER(47|4));
    VAR014A := BUFFER(47|4);
    VAR015 := CONVERT (BUFFER(51|4));
    VAR015A := BUFFER(51|4);
    VAR016 := BUFFER(55|5);
    VAR017 := BUFFER(60|5);
    VAR018 := CONVERT (BUFFER(65|1));
    VAR018A := BUFFER(65|1);
    VAR019 := BUFFER(66|5);
    VAR020 := CONVERT (BUFFER(71|1));
    VAR020A := BUFFER(71|1);
```

```
    VAR021 := CONVERT (BUFFER(72|2));
    VAR021A := BUFFER(72|2);
    VAR022 := CONVERT (BUFFER(74|2));
    VAR022A := BUFFER(74|2);
    VAR023 := CONVERT (BUFFER(76|3));
    VAR023A := BUFFER(76|3);
    VAR024 := CONVERT (BUFFER(79|1));
    VAR024A := BUFFER(79|1);
    END;

PROCEDURE IMAGE3;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR025 := CONVERT (BUFFER(0|3));
    VAR025A := BUFFER(0|3);
    VAR026 := CONVERT (BUFFER(3|1));
    VAR026A := BUFFER(3|1);
    VAR027 := CONVERT (BUFFER(4|3));
    VAR027A := BUFFER(4|3);
    VAR028 := CONVERT (BUFFER(7|1));
    VAR028A := BUFFER(7|1);
    VAR029 := CONVERT (BUFFER(8|3));
    VAR029A := BUFFER(8|3);
    VAR030 := CONVERT (BUFFER(11|1));
    VAR030A := BUFFER(11|1);
    VAR031 := CONVERT (BUFFER(12|3));
    VAR031A := BUFFER(12|3);
    VAR032 := CONVERT (BUFFER(15|1));
    VAR032A := BUFFER(15|1);
    VAR033 := CONVERT (BUFFER(16|3));
    VAR033A := BUFFER(16|3);
    VAR034 := CONVERT (BUFFER(19|1));
    VAR034A := BUFFER(19|1);
    VAR035 := CONVERT (BUFFER(20|3));
    VAR035A := BUFFER(20|3);
    VAR036 := CONVERT (BUFFER(23|1));
    VAR036A := BUFFER(23|1);
    VAR037 := CONVERT (BUFFER(24|3));
    VAR037A := BUFFER(24|3);
    VAR038 := CONVERT (BUFFER(27|1));
    VAR038A := BUFFER(27|1);
    VAR039 := CONVERT (BUFFER(28|3));
    VAR039A := BUFFER(28|3);
    VAR040 := CONVERT (BUFFER(31|1));
    VAR040A := BUFFER(31|1);
    VAR041 := CONVERT (BUFFER(32|3));
    VAR041A := BUFFER(32|3);
    VAR042 := CONVERT (BUFFER(35|1));
```

```
      VAR042A := BUFFER(35|1);
      VAR043 := CONVERT (BUFFER(36|3));
      VAR043A := BUFFER(36|3);
      VAR044 := CONVERT (BUFFER(39|1));
      VAR044A := BUFFER(39|1);
      VAR045 := CONVERT (BUFFER(40|3));
      VAR045A := BUFFER(40|3);
      VAR046 := CONVERT (BUFFER(43|1));
      VAR046A := BUFFER(43|1);
      VAR047 := CONVERT (BUFFER(44|3));
      VAR047A := BUFFER(44|3);
      VAR048 := CONVERT (BUFFER(47|1));
      VAR048A := BUFFER(47|1);
      VAR049 := CONVERT (BUFFER(48|3));
      VAR049A := BUFFER(48|3);
      VAR050 := CONVERT (BUFFER(51|1));
      VAR050A := BUFFER(51|1);
      VAR051 := CONVERT (BUFFER(52|3));
      VAR051A := BUFFER(52|3);
      VAR052 := CONVERT (BUFFER(55|1));
      VAR052A := BUFFER(55|1);
      VAR053 := CONVERT (BUFFER(56|3));
      VAR053A := BUFFER(56|3);
      VAR054 := CONVERT (BUFFER(59|1));
      VAR054A := BUFFER(59|1);
      VAR055 := CONVERT (BUFFER(60|3));
      VAR055A := BUFFER(60|3);
      VAR056 := CONVERT (BUFFER(63|1));
      VAR056A := BUFFER(63|1);
      VAR057 := CONVERT (BUFFER(64|3));
      VAR057A := BUFFER(64|3);
      VAR058 := CONVERT (BUFFER(67|1));
      VAR058A := BUFFER(67|1);
      VAR059 := CONVERT (BUFFER(76|3));
      VAR059A := BUFFER(76|3);
      VAR060 := CONVERT (BUFFER(79|1));
      VAR060A := BUFFER(79|1);
      END;

   PROCEDURE IMAGE4;
      BEGIN STRING (80) BUFFER;
      READCARD (BUFFER);
      VAR061 := BUFFER(0|32);
      VAR062 := CONVERT (BUFFER(32|3));
      VAR062A := BUFFER(32|3);
      VAR063 := CONVERT (BUFFER(35|3));
      VAR063A := BUFFER(35|3);
      VAR064 := BUFFER(38|32);
```

```
    VAR065 := CONVERT (BUFFER(70|3));
    VAR065A := BUFFER(70|3);
    VAR066 := CONVERT (BUFFER(73|3));
    VAR066A := BUFFER(73|3);
    VAR067 := CONVERT (BUFFER(76|3));
    VAR067A := BUFFER(76|3);
    VAR068 := CONVERT (BUFFER(79|1));
    VAR068A := BUFFER(79|1);
    END;

PROCEDURE IMAGE5;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR069 := BUFFER(0|32);
    VAR070 := CONVERT (BUFFER(32|3));
    VAR070A := BUFFER(32|3);
    VAR071 := CONVERT (BUFFER(35|3));
    VAR071A := BUFFER(35|3);
    VAR072 := BUFFER(38|32);
    VAR073 := CONVERT (BUFFER(70|3));
    VAR073A := BUFFER(70|3);
    VAR074 := CONVERT (BUFFER(73|3));
    VAR074A := BUFFER(73|3);
    VAR075 := CONVERT (BUFFER(76|3));
    VAR075A := BUFFER(76|3);
    VAR076 := CONVERT (BUFFER(79|1));
    VAR076A := BUFFER(79|1);
    END;

PROCEDURE IMAGE6;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR077 := BUFFER(0|32);
    VAR078 := CONVERT (BUFFER(32|3));
    VAR078A := BUFFER(32|3);
    VAR079 := CONVERT (BUFFER(35|3));
    VAR079A := BUFFER(35|3);
    VAR080 := CONVERT (BUFFER(38|3));
    VAR080A := BUFFER(38|3);
    VAR081 := CONVERT (BUFFER(76|3));
    VAR081A := BUFFER(76|3);
    VAR082 := CONVERT (BUFFER(79|1));
    VAR082A := BUFFER(79|1);
    END;

PROCEDURE IMAGE7;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
```

```
    VAR083 := BUFFER[0|75];
    VAR084 := CONVERT (BUFFER[75|1]);
    VAR084A := BUFFER[75|1];
    VAR085 := CONVERT (BUFFER[76|3]);
    VAR085A := BUFFER[76|3];
    VAR086 := CONVERT (BUFFER[79|1]);
    VAR086A := BUFFER[79|1];
    END;

PROCEDURE DISPLAYCASE;
    BEGIN IOCONTROL (3);
    IOCONTROL (4);
    WRITE ("COMMAND NAME: ", VAR001);
    WRITE ("BILLET SEQUENCE CODE: ", IF (VAR002 = 0) OR (VAR002 = 99999)
       THEN "NONE LISTED" ELSE VAR002A);
    WRITE ("BILLET TITLE: ", VAR003);
    WRITE ("UNIT IDENTIFICATION CODE: ", VAR004A);
    WRITE ("CONUS-OVERSEAS CODE: ", VAR005A, " = ", IF VAR005 = 0
       THEN "CONUS" ELSE IF VAR005 = 1 THEN "EUROPE" ELSE IF VAR005 = 2
       THEN "PACIFIC" ELSE IF VAR005 = 3 THEN "ATLANTIC/MED AFLOAT"
       ELSE IF VAR005 = 4 THEN "PACIFIC AFLOAT" ELSE "INVALID CODE");
    WRITE ("COUNTRY-STATE CODE: ", VAR006);
    WRITE ("CODER CODE: ", VAR007A, " = ", IF VAR007 = 1 THEN
       "LCDR MOUNT" ELSE IF VAR007 = 2 THEN "LT FOSTER" ELSE IF
       VAR007 = 3 THEN "LT BICKELL" ELSE IF VAR007 = 4 THEN "LT HUBER"
       ELSE IF VAR007 = 5 THEN "LT WATSON" ELSE "INVALID CODE");
    WRITE (" ");
    WRITE ("RESPONDENT'S NAME: ", VAR010);
    WRITE ("RESPONDENT'S RANK: ", IF VAR011 = 1 THEN "CIVILIAN" ELSE
       IF VAR011 = 3 THEN "LIEUTENANT" ELSE IF VAR011 = 4 THEN "LCDR"
       ELSE IF VAR011 = 5 THEN "CDR" ELSE IF VAR011 = 6 THEN "CAPT"
       ELSE "INVALID CODE");
    WRITE ("RESPONDENT'S AGE: ", IF VAR012 = 99 THEN "NOT LISTED"
       ELSE VAR012A);
    WRITE ("RESPONDENT'S DESIGNATOR HISTORY: ", VAR013A);
    IF ¬((VAR014 = 0000) OR (VAR014 = 9999)) THEN
       WRITEON (", ", VAR014A);
    IF ¬((VAR015 = 0000) OR (VAR015 = 9999)) THEN
       WRITEON (", ", VAR015A);
    WRITE ("BILLET SUBSPECIALTY CODE: ", IF VAR016 = "99999" THEN
       "NONE LISTED" ELSE VAR016);
    WRITE ("RESPONDENT'S SUBSPECIALTY CODE: ", IF VAR017 = "99999"
       THEN "NONE LISTED" ELSE VAR017);
    WRITE ("EDUCATIONAL LEVEL: ", IF VAR018 = 0 THEN
       "LESS THAN BACHELORS DEGREE" ELSE IF VAR018 = 1 THEN
       "BACHELORS LEVEL" ELSE IF VAR018 = 2 THEN "POSTGRAD STUDIES"
       ELSE IF VAR018 = 4 THEN "MASTERS LEVEL" ELSE IF VAR018 = 5 THEN
       "DOCTORAL LEVEL" ELSE "INVALID CODE");
```

```
WRITE ("TRAINING USED IN THIS BILLET: ", IF VAR019 = "      "
   THEN "NONE LISTED" ELSE VAR019);
WRITE ("FIRST INTELL BILLET?: ", IF VAR020 = 0 THEN "NO" ELSE
   "YES");
WRITE ("YEARS PREVIOUS INTELLIGENCE EXPERIENCE: ", IF VAR021 = 99
   THEN "NOT LISTED" ELSE VAR021A);
WRITE ("MONTHS IN THIS BILLET: ", IF VAR022 = 99 THEN "NOT LISTED"
   ELSE VAR022A);
WRITE (" ");
WRITE ("INTELL OFFICE ADMINISTRATION:  ",VAR025A, "%", IF VAR026 = 0
   THEN "  NOT VALID" ELSE IF VAR026 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("BRIEFS AND DEBRIEFS:           ",VAR027A, "%", IF VAR028 = 0
   THEN "  NOT VALID" ELSE IF VAR028 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("BUDGETS AND BUDGETING:         ",VAR029A, "%", IF VAR030 = 0
   THEN "  NOT VALID" ELSE IF VAR030 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("CHARTS AND AUDIO-VISUAL AIDS:  ",VAR031A, "%", IF VAR032 = 0
   THEN "  NOT VALID" ELSE IF VAR032 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("COUNTERINTELLIGENCE STUDIES:   ",VAR033A, "%", IF VAR034 = 0
   THEN "  NOT VALID" ELSE IF VAR034 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("DATA ANALYSIS:                 ",VAR035A, "%", IF VAR036 = 0
   THEN "  NOT VALID" ELSE IF VAR036 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("DECISIONS AND RECOMMENDATIONS: ",VAR037A, "%", IF VAR038 = 0
   THEN "  NOT VALID" ELSE IF VAR038 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("ESTIMATES:                     ",VAR039A, "%", IF VAR040 = 0
   THEN "  NOT VALID" ELSE IF VAR040 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("INTELL ANNEXES TO OPORDS:      ",VAR041A, "%", IF VAR042 = 0
   THEN "  NOT VALID" ELSE IF VAR042 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("INTELL COLLECTION PLANS:       ",VAR043A, "%", IF VAR044 = 0
   THEN "  NOT VALID" ELSE IF VAR044 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("INTELL COLLECTION TASKING:     ",VAR045A, "%", IF VAR046 = 0
   THEN "  NOT VALID" ELSE IF VAR046 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("INTELLIGENCE REPORTS:          ",VAR047A, "%", IF VAR048 = 0
   THEN "  NOT VALID" ELSE IF VAR048 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
WRITE ("INTELLIGENCE STUDIES:          ",VAR049A, "%", IF VAR050 = 0
   THEN "  NOT VALID" ELSE IF VAR050 = 1 THEN "  VALID" ELSE
   "  NO RESPONSE");
```

```
    WRITE ("INTERFACE ADP-TELECOMMS:          ",VAR051A, "%", IF VAR052 = 0
       THEN "  NOT VALID" ELSE IF VAR052 = 1 THEN "  VALID" ELSE
       "  NO RESPONSE");
    WRITE ("ORDERS OF BATTLE:                 ",VAR053A, "%", IF VAR054 = 0
       THEN "  NOT VALID" ELSE IF VAR054 = 1 THEN "  VALID" ELSE
       "  NO RESPONSE");
    WRITE ("PHYSICAL SECURITY:                ",VAR055A, "%", IF VAR056 = 0
       THEN "  NOT VALID" ELSE IF VAR056 = 1 THEN "  VALID" ELSE
       "  NO RESPONSE");
    WRITE ("TACTICAL PLOTS:                   ",VAR057A, "%", IF VAR058 = 0
       THEN "  NOT VALID" ELSE IF VAR058 = 1 THEN "  VALID" ELSE
       "  NO RESPONSE");
    IF VAR061 ¬= " " THEN WRITE ("* ", VAR061, "   ", VAR063A, "% ",
       IF (VAR062 = 0) OR (VAR062 = 999) THEN " " ELSE VAR062A);
    IF VAR064 ¬= " " THEN WRITE ("* ", VAR064, "   ", VAR066A, "% ",
       IF (VAR065 = 0) OR (VAR065 = 999) THEN " " ELSE VAR065A);
    IF VAR069 ¬= " " THEN WRITE ("* ", VAR069, "   ", VAR071A, "% ",
       IF (VAR070 = 0) OR (VAR070 = 999) THEN " " ELSE VAR070A);
    IF VAR072 ¬= " " THEN WRITE ("* ", VAR072, "   ", VAR074A, "% ",
       IF (VAR073 = 0) OR (VAR073 = 999) THEN " " ELSE VAR073A);
    IF VAR077 ¬= " " THEN WRITE ("* ", VAR077, "   ", VAR079A, "% ",
       IF (VAR078 = 0) OR (VAR078 = 999) THEN " " ELSE VAR078A);
    IF ¬((VAR080 = 0) OR (VAR080 = 999)) THEN WRITE
       ("# PERCENT NON-INTELLIGENCE OUTPUTS:  ", VAR080A, "%");
    WRITE (" ");
    WRITE ("COMMENTS: ", VAR083);
    WRITE ("ARE COMMENTS CONTINUED? ", IF VAR084 = 0 THEN "NO COMMENTS"
       ELSE IF VAR084 = 1 THEN "NO FURTHER COMMENTS" ELSE "CONTINUED");
    WRITE (" ");
    WRITE (VAR008A, ".", VAR009A);
    WRITE (VAR023A, ".", VAR024A);
    WRITE (VAR059A, ".", VAR060A);
    WRITE (VAR067A, ".", VAR068A);
    WRITE (VAR075A, ".", VAR076A);
    WRITE (VAR081A, ".", VAR082A);
    WRITE (VAR085A, ".", VAR086A);
    IOCONTROL (5);
    END;

READ (QCASES);
FOR I := 1 UNTIL QCASES DO
BEGIN GETCASE;
DISPLAYCASE;
END;
IOCONTROL (3);
WRITE ("NUMBER CASES =", QCASES);
END.
```

```
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//           DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//LINK.SYSPRINT DD DUMMY
//GO.SYSPRINT DD SYSOUT=O,SPACE=(CYL,(5,2))
//GO.SYSIN DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),LABEL=(,,,IN),
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),DSNAME=S2600.QCARDS
```

APPENDIX F

SAMPLE C

EXAMPLE OUTPUT FROM ALGOL DISPLAY PROGRAM

```
COMMAND NAME: NOSIC
BILLET SEQUENCE CODE: 19010
BILLET TITLE: OPERATIONS OFFICER
UNIT IDENTIFICATION CODE: 30883
CONUS-OVERSEAS CODE: 0 = CONUS
COUNTRY-STATE CODE: DC
CODER CODE: 2 = LT FOSTER

RESPONDENT'S NAME: /SINCLAIR /S. /MARTEL
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 36
RESPONDENT'S DESIGNATOR HISTORY: 1630, 1635
BILLET SUBSPECIALTY CODE: 7210E
RESPONDENT'S SUBSPECIALTY CODE: 00000
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: 18
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 14
MONTHS IN THIS BILLET: 06

INTELL OFFICE ADMINISTRATION:  076%  VALID
BRIEFS AND DEBRIEFS:           008%  VALID
BUDGETS AND BUDGETING:         000%  NO RESPONSE
CHARTS AND AUDIO-VISUAL AIDS:  000%  NO RESPONSE
COUNTERINTELLIGENCE STUDIES:   000%  NO RESPONSE
DATA ANALYSIS:                 000%  NO RESPONSE
DECISIONS AND RECOMMENDATIONS: 008%  VALID
ESTIMATES:                     000%  NO RESPONSE
INTELL ANNEXES TO OPORDS:      000%  NO RESPONSE
INTELL COLLECTION PLANS:       000%  NO RESPONSE
INTELL COLLECTION TASKING:     000%  NO RESPONSE
INTELLIGENCE REPORTS:          000%  NO RESPONSE
INTELLIGENCE STUDIES:          000%  NO RESPONSE
INTERFACE ADP-TELECOMMS:       000%  NO RESPONSE
ORDERS OF BATTLE:              000%  NO RESPONSE
PHYSICAL SECURITY:             000%  NO RESPONSE
TACTICAL PLOTS:                000%  NO RESPONSE
* CURRENT INTEL (OPINTEL) PRODUCTN   008% BDI

COMMENTS: EXTSIV OPINTEL EXP PREREQUISITE. NATIONAL SENIOR INTEL COURSE BENEFICIAL.
ARE COMMENTS CONTINUED? NO FURTHER COMMENTS

200.1
200.2
200.3
200.4
200.5
200.6
200.7
```

COMMAND NAME: NOSIC
BILLET SEQUENCE CODE: 19070
BILLET TITLE: HEAD,MARITIME OPERATIONS BRANCH
UNIT IDENTIFICATION CODE: 30883
CONUS-OVERSEAS CODE: 0 = CONUS
COUNTRY-STATE CODE: DC
CODER CODE: 2 = LT FOSTER

RESPONDENT'S NAME: /LOUIS /A. /ROGERS
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 35
RESPONDENT'S DESIGNATOR HISTORY: 1110
BILLET SUBSPECIALTY CODE: 7210E
RESPONDENT'S SUBSPECIALTY CODE: 7210E
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: 3
FIRST INTELL BILLET?: YES
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 00
MONTHS IN THIS BILLET: 21

INTELL OFFICE ADMINISTRATION:	020%	VALID
BRIEFS AND DEBRIEFS:	003%	VALID
BUDGETS AND BUDGETING:	000%	VALID
CHARTS AND AUDIO-VISUAL AIDS:	000%	VALID
COUNTERINTELLIGENCE STUDIES:	000%	VALID
DATA ANALYSIS:	005%	VALID
DECISIONS AND RECOMMENDATIONS:	020%	VALID
ESTIMATES:	010%	VALID
INTELL ANNEXES TO OPORDS:	000%	VALID
INTELL COLLECTION PLANS:	000%	VALID
INTELL COLLECTION TASKING:	000%	VALID
INTELLIGENCE REPORTS:	000%	VALID
INTELLIGENCE STUDIES:	002%	VALID
INTERFACE ADP-TELECOMMS:	010%	NOT VALID
ORDERS OF BATTLE:	000%	VALID
PHYSICAL SECURITY:	002%	VALID
TACTICAL PLOTS:	000%	VALID
* COUNSELING SUBORDINATES		003% T
* ESTABLISHING REQUIREMENTS		005% B
* INTER AGENCY LIAISON		005% F
* OUTGOING REPORTS		015% A

COMMENTS: STRESS:WRITING,GS REGS,MGMT BY OBJECTIVES,COMM SKILLS AND BRIEFING
ARE COMMENTS CONTINUED? NO FURTHER COMMENTS

201.1
201.2
201.3
201.4
201.5
201.6
201.7

COMMAND NAME: NOSIC
BILLET SEQUENCE CODE: 19300
BILLET TITLE: ADP OPINTEL PRODUCTION MANAGER
UNIT IDENTIFICATION CODE: 30883
CONUS-OVERSEAS CODE: 0 = CONUS
COUNTRY-STATE CODE: DC
CODER CODE: 2 = LT FOSTER

RESPONDENT'S NAME: /EUGENE /J. /RAIRDAN
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 33
RESPONDENT'S DESIGNATOR HISTORY: 1630, 1350
BILLET SUBSPECIALTY CODE: 7210
RESPONDENT'S SUBSPECIALTY CODE: 9502P
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: 57
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 08
MONTHS IN THIS BILLET: 02

INTELL OFFICE ADMINISTRATION:	999%	NO RESPONSE
BRIEFS AND DEBRIEFS:	999%	NO RESPONSE
BUDGETS AND BUDGETING:	999%	NO RESPONSE
CHARTS AND AUDIO-VISUAL AIDS:	999%	NO RESPONSE
COUNTERINTELLIGENCE STUDIES:	999%	NO RESPONSE
DATA ANALYSIS:	999%	NO RESPONSE
DECISIONS AND RECOMMENDATIONS:	999%	NO RESPONSE
ESTIMATES:	999%	NO RESPONSE
INTELL ANNEXES TO OPORDS:	999%	NO RESPONSE
INTELL COLLECTION PLANS:	999%	NO RESPONSE
INTELL COLLECTION TASKING:	999%	NO RESPONSE
INTELLIGENCE REPORTS:	999%	NO RESPONSE
INTELLIGENCE STUDIES:	999%	NO RESPONSE
INTERFACE ADP-TELECOMMS:	999%	NO RESPONSE
ORDERS OF BATTLE:	999%	NO RESPONSE
PHYSICAL SECURITY:	999%	NO RESPONSE
TACTICAL PLOTS:	999%	NO RESPONSE

COMMENTS: UNABLE TO ESTIMATE DUE TO SHORT TIME IN BILLET.
ARE COMMENTS CONTINUED? NO FURTHER COMMENTS

202.1
202.2
202.3
202.4
202.5
202.6
202.7

COMMAND NAME: COMNAVINTCOM
BILLET SEQUENCE CODE: 50250
BILLET TITLE: HEAD SPECIAL SEC DET PENTAGON BRANCH
UNIT IDENTIFICATION CODE: 00015
CONUS-OVERSEAS CODE: 0 = CONUS
COUNTRY-STATE CODE: DC
CODER CODE: 3 = LT BICKELL

RESPONDENT'S NAME: /VINCENT /H.#/DE /VITO
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 43
RESPONDENT'S DESIGNATOR HISTORY: 1110, 1100, 1108
BILLET SUBSPECIALTY CODE: NONE LISTED
RESPONDENT'S SUBSPECIALTY CODE: 7210E
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: 1
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 03
MONTHS IN THIS BILLET: 60

INTELL OFFICE ADMINISTRATION:	030%	NOT VALID
BRIEFS AND DEBRIEFS:	030%	VALID
BUDGETS AND BUDGETING:	000%	NO RESPONSE
CHARTS AND AUDIO-VISUAL AIDS:	000%	NO RESPONSE
COUNTERINTELLIGENCE STUDIES:	000%	NO RESPONSE
DATA ANALYSIS:	000%	NO RESPONSE
DECISIONS AND RECOMMENDATIONS:	005%	VALID
ESTIMATES:	000%	NO RESPONSE
INTELL ANNEXES TO OPORDS:	000%	NO RESPONSE
INTELL COLLECTION PLANS:	000%	NO RESPONSE
INTELL COLLECTION TASKING:	000%	NO RESPONSE
INTELLIGENCE REPORTS:	000%	NO RESPONSE
INTELLIGENCE STUDIES:	000%	NO RESPONSE
INTERFACE ADP-TELECOMMS:	000%	NO RESPONSE
ORDERS OF BATTLE:	000%	NO RESPONSE
PHYSICAL SECURITY:	035%	NOT VALID
TACTICAL PLOTS:	000%	NO RESPONSE

COMMENTS: DESIGNATORS WERE 1108,1105,1315,1310,1100,1110
ARE COMMENTS CONTINUED? NO FURTHER COMMENTS

402.1
402.2
402.3
402.4
402.5
402.6
402.7

COMMAND NAME: COMNAVINTCOM
BILLET SEQUENCE CODE: 01300
BILLET TITLE: ASST OPS COORDINATION OFFICER
UNIT IDENTIFICATION CODE: 00015
CONUS-OVERSEAS CODE: 0 = CONUS
COUNTRY-STATE CODE: VA
CODER CODE: 3 = LT BICKELL

RESPONDENT'S NAME: /HOLLIS /W. /HARMON
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 32
RESPONDENT'S DESIGNATOR HISTORY: 1630, 1310, 1100
BILLET SUBSPECIALTY CODE: NONE LISTED
RESPONDENT'S SUBSPECIALTY CODE: NONE LISTED
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: 2
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 03
MONTHS IN THIS BILLET: 06

INTELL OFFICE ADMINISTRATION:	026%	VALID
BRIEFS AND DEBRIEFS:	005%	VALID
BUDGETS AND BUDGETING:	001%	VALID
CHARTS AND AUDIO-VISUAL AIDS:	005%	VALID
COUNTERINTELLIGENCE STUDIES:	000%	VALID
DATA ANALYSIS:	001%	NOT VALID
DECISIONS AND RECOMMENDATIONS:	025%	VALID
ESTIMATES:	005%	VALID
INTELL ANNEXES TO OPORDS:	000%	VALID
INTELL COLLECTION PLANS:	012%	NOT VALID
INTELL COLLECTION TASKING:	000%	VALID
INTELLIGENCE REPORTS:	000%	VALID
INTELLIGENCE STUDIES:	005%	VALID
INTERFACE ADP-TELECOMMS:	001%	NOT VALID
ORDERS OF BATTLE:	000%	VALID
PHYSICAL SECURITY:	001%	NOT VALID
TACTICAL PLOTS:	000%	NOT VALID
# PERCENT NON-INTELLIGENCE OUTPUTS:	013%	

COMMENTS:
ARE COMMENTS CONTINUED? NO COMMENTS

409.1
409.2
409.3
409.4
409.5
409.6
409.7

COMMAND NAME: NISO NEW YORK
BILLET SEQUENCE CODE: 00100
BILLET TITLE: COMMANDING OFFICER
UNIT IDENTIFICATION CODE: 63054
CONUS-OVERSEAS CODE: O = CONUS
COUNTRY-STATE CODE: NY
CODER CODE: 4 = LT HUBER

RESPONDENT'S NAME: /GEORGE /I. /KNOWLES
RESPONDENT'S RANK: CAPT
RESPONDENT'S AGE: 43
RESPONDENT'S DESIGNATOR HISTORY: 1110, 1100, 1105
BILLET SUBSPECIALTY CODE: 7210E
RESPONDENT'S SUBSPECIALTY CODE: 7160P
EDUCATIONAL LEVEL: MASTERS LEVEL
TRAINING USED IN THIS BILLET: NONE LISTED
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 04
MONTHS IN THIS BILLET: 10

INTELL OFFICE ADMINISTRATION:	050%	VALID
BRIEFS AND DEBRIEFS:	001%	NOT VALID
BUDGETS AND BUDGETING:	005%	VALID
CHARTS AND AUDIO-VISUAL AIDS:	000%	NOT VALID
COUNTERINTELLIGENCE STUDIES:	001%	NOT VALID
DATA ANALYSIS:	003%	NOT VALID
DECISIONS AND RECOMMENDATIONS:	005%	NOT VALID
ESTIMATES:	001%	NOT VALID
INTELL ANNEXES TO OPORDS:	000%	NOT VALID
INTELL COLLECTION PLANS:	001%	NOT VALID
INTELL COLLECTION TASKING:	001%	NOT VALID
INTELLIGENCE REPORTS:	000%	NOT VALID
INTELLIGENCE STUDIES:	001%	NOT VALID
INTERFACE ADP-TELECOMMS:	004%	VALID
ORDERS OF BATTLE:	000%	NOT VALID
PHYSICAL SECURITY:	004%	VALID
TACTICAL PLOTS:	000%	NOT VALID
* INVESTIGATORY PROCESS		003% ABF
* COUNTERINTELLIGENCE OPERATIONS		005% ABH
# PERCENT NON-INTELLIGENCE OUTPUTS:		015%

COMMENTS:
ARE COMMENTS CONTINUED? NO COMMENTS

607.1
607.2
607.3
607.4
607.5
607.6
607.7

COMMAND NAME: COMCRUDESGRU EIGHT
BILLET SEQUENCE CODE: 01800
BILLET TITLE: STAFF INTELLIGENCE OFFICER
UNIT IDENTIFICATION CODE: 99922
CONUS-OVERSEAS CODE: 3 = ATLANTIC/MED AFLOAT
COUNTRY-STATE CODE: AF
CODER CODE: 4 = LT HUBER

RESPONDENT'S NAME: /WILLIAM /EDWARD /DUNCAN
RESPONDENT'S RANK: CDR
RESPONDENT'S AGE: 38
RESPONDENT'S DESIGNATOR HISTORY: 1630, 1100
BILLET SUBSPECIALTY CODE: 7210E
RESPONDENT'S SUBSPECIALTY CODE: 00000
EDUCATIONAL LEVEL: POSTGRAD STUDIES
TRAINING USED IN THIS BILLET: NONE LISTED
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 11
MONTHS IN THIS BILLET: 13

INTELL OFFICE ADMINISTRATION:	014%	VALID
BRIEFS AND DEBRIEFS:	010%	VALID
BUDGETS AND BUDGETING:	000%	VALID
CHARTS AND AUDIO-VISUAL AIDS:	005%	NOT VALID
COUNTERINTELLIGENCE STUDIES:	001%	VALID
DATA ANALYSIS:	015%	VALID
DECISIONS AND RECOMMENDATIONS:	010%	VALID
ESTIMATES:	005%	VALID
INTELL ANNEXES TO OPORDS:	010%	VALID
INTELL COLLECTION PLANS:	002%	VALID
INTELL COLLECTION TASKING:	003%	VALID
INTELLIGENCE REPORTS:	001%	VALID
INTELLIGENCE STUDIES:	005%	VALID
INTERFACE ADP-TELECOMMS:	005%	VALID
ORDERS OF BATTLE:	002%	VALID
PHYSICAL SECURITY:	002%	NOT VALID
TACTICAL PLOTS:	005%	VALID
# PERCENT NON-INTELLIGENCE OUTPUTS:	005%	

COMMENTS: OUTPUT VALIDITY FUNCTION OF BILLET, ORGANIZATION, AND MISSION.
ARE COMMENTS CONTINUED? NO FURTHER COMMENTS

612.1
612.2
612.3
612.4
612.5
612.6
612.7

COMMAND NAME: COMSUBPAC
BILLET SEQUENCE CODE: 95000
BILLET TITLE: SSO
UNIT IDENTIFICATION CODE: 57020
CONUS-OVERSEAS CODE: 2 = PACIFIC
COUNTRY-STATE CODE: HI
CODEP CODE: 5 = LT WATSON

RESPONDENT'S NAME: /H. /W. /LEEKE
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 33
RESPONDENT'S DESIGNATOR HISTORY: 1120
BILLET SUBSPECIALTY CODE: NONE LISTED
RESPONDENT'S SUBSPECIALTY CODE: NONE LISTED
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: 12
FIRST INTELL BILLET?: YES
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 00
MONTHS IN THIS BILLET: 30

INTELL OFFICE ADMINISTRATION:	025%	VALID
BRIEFS AND DEBRIEFS:	010%	VALID
BUDGETS AND BUDGETING:	001%	VALID
CHARTS AND AUDIO-VISUAL AIDS:	001%	NOT VALID
COUNTERINTELLIGENCE STUDIES:	000%	NO RESPONSE
DATA ANALYSIS:	000%	NO RESPONSE
DECISIONS AND RECOMMENDATIONS:	012%	VALID
ESTIMATES:	000%	NO RESPONSE
INTELL ANNEXES TO OPORDS:	001%	VALID
INTELL COLLECTION PLANS:	000%	NO RESPONSE
INTELL COLLECTION TASKING:	008%	VALID
INTELLIGENCE REPORTS:	000%	NO RESPONSE
INTELLIGENCE STUDIES:	015%	VALID
INTERFACE ADP-TELECOMMS:	000%	NO RESPONSE
ORDERS OF BATTLE:	000%	NO RESPONSE
PHYSICAL SECURITY:	006%	VALID
TACTICAL PLOTS:	001%	VALID
# PERCENT NON-INTELLIGENCE OUTPUTS:	020%	

COMMENTS:
ARE COMMENTS CONTINUED? NO COMMENTS

811.1
811.2
811.3
811.4
811.5
811.6
811.7

COMMAND NAME: COMTHIRDFLEET
BILLET SEQUENCE CODE: NONE LISTED
BILLET TITLE: INTELL PLANS SPEC OPS
UNIT IDENTIFICATION CODE: 57087
CONUS-OVERSEAS CODE: 2 = PACIFIC
COUNTRY-STATE CODE: HI
CODER CODE: 5 = LT WATSON

RESPONDENT'S NAME: #/HUCHTHAUSEN
RESPONDENT'S RANK: LCDR
RESPONDENT'S AGE: 35
RESPONDENT'S DESIGNATOR HISTORY: 1630, 1100
BILLET SUBSPECIALTY CODE: NONE LISTED
RESPONDENT'S SUBSPECIALTY CODE: NONE LISTED
EDUCATIONAL LEVEL: BACHELORS LEVEL
TRAINING USED IN THIS BILLET: NONE LISTED
FIRST INTELL BILLET?: NO
YEARS PREVIOUS INTELLIGENCE EXPERIENCE: 02
MONTHS IN THIS BILLET: 16

INTELL OFFICE ADMINISTRATION:	999%	NO RESPONSE
BRIEFS AND DEBRIEFS:	999%	NO RESPONSE
BUDGETS AND BUDGETING:	999%	NO RESPONSE
CHARTS AND AUDIO-VISUAL AIDS:	999%	NO RESPONSE
COUNTERINTELLIGENCE STUDIES:	999%	NO RESPONSE
DATA ANALYSIS:	999%	NO RESPONSE
DECISIONS AND RECOMMENDATIONS:	999%	NO RESPONSE
ESTIMATES:	999%	NO RESPONSE
INTELL ANNEXES TO OPORDS:	999%	NO RESPONSE
INTELL COLLECTION PLANS:	999%	NO RESPONSE
INTELL COLLECTION TASKING:	999%	NO RESPONSE
INTELLIGENCE REPORTS:	999%	NO RESPONSE
INTELLIGENCE STUDIES:	999%	NO RESPONSE
INTERFACE AD?-TELECOMMS:	999%	NO RESPONSE
ORDERS OF BATTLE:	999%	NO RESPONSE
PHYSICAL SECURITY:	999%	NO RESPONSE
TACTICAL PLOTS:	999%	NO RESPONSE

COMMENTS: QUESTNRE NOT RCD
ARE COMMENTS CONTINUED? NO FURTHER COMMENTS

883.1
883.2
883.3
883.4
883.5
883.6
883.7

APPENDIX F

SAMPLE D

ALGOL SOURCE PROGRAM TO MERGE QCARDS/TCARDS/ACARDS AND CLEAN-UP DATA BASE

```
//HUBER003 JOB (2600,0678,YS42),'HUBER,E.W.',TIME=4
// EXEC ALGWCLG,PARM.GO='SIZE=150K',REGION=250K
//ALGOL.SYSIN DD *
%ALGOL TIME=60,SIZE=150K
BEGIN

STRING (25) VAR001;
STRING (37) VAR003;
STRING (2) VAR006;
STRING (40) VAR010;
STRING (32) VAR061, VAR064, VAR069, VAR072, VAR077, ADDVARIABLE;
STRING (75) VAR083;
STRING (1) VAR005A, VAR007A, VAR009A, VAR011A, VAR018A, VAR020A,
   VAR024A, VAR026A, VAR028A, VAR030A, VAR032A, VAR034A, VAR036A,
   VAR038A, VAR040A, VAR042A, VAR044A, VAR046A, VAR048A, VAR050A,
   VAR052A, VAR054A, VAR056A, VAR058A, VAR060A, VAR068A, VAR076A,
   VAR082A, VAR084A, VAR086A;
STRING (2) VAR012A, VAR021A, VAR022A;
STRING (3) VAR008A, VAR023A, VAR025A, VAR027A, VAR029A, VAR031A,
   VAR033A, VAR035A, VAR037A, VAR039A, VAR041A, VAR043A, VAR045A,
   VAR047A, VAR049A, VAR051A, VAR053A, VAR055A, VAR057A, VAR059A,
   VAR062A, VAR063A, VAR065A, VAR066A, VAR067A, VAR070A, VAR071A,
   VAR073A, VAR074A, VAR075A, VAR078A, VAR079A, VAR080A, VAR081A,
   VAR085A, ACODE;
STRING (4) VAR013A, VAR014A, VAR015A;
STRING (5) VAR002A, VAR004A, VAR016, VAR017, VAR019A, TRAININFO;
STRING (80) BUFFER;
INTEGER VAR002, VAR004, VAR005, VAR007, VAR008, VAR009, VAR011,
   VAR012, VAR013, VAR014, VAR015, VAR018, VAR019, VAR020, VAR021,
   VAR022, VAR023, VAR024, VAR025, VAR026, VAR027, VAR028, VAR029,
   VAR030, VAR031, VAR032, VAR033, VAR034, VAR035, VAR036, VAR037,
   VAR038, VAR039, VAR040, VAR041, VAR042, VAR043, VAR044, VAR045,
   VAR046, VAR047, VAR048, VAR049, VAR050, VAR051, VAR052, VAR053,
   VAR054, VAR055, VAR056, VAR057, VAR058, VAR059, VAR060, VAR062,
   VAR063, VAR065, VAR066, VAR067, VAR068, VAR070, VAR071, VAR073,
   VAR074, VAR075, VAR076, VAR078, VAR079, VAR080, VAR081, VAR082,
   VAR084, VAR085, VAR086, QCASES, TCARDS, ACARDS, TCASENO, ACASENO;

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
   BEGIN INTEGER INTVALUE, POSITION;
   INTVALUE := POSITION := 0;
   WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(U|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;
```

```
PROCEDURE REWIND11; FORTRAN "RWND11";

PROCEDURE REWIND12; FORTRAN "RWND12";

PROCEDURE READ11 (STRING (80) RESULT BUF); FORTRAN "READ11";

PROCEDURE READ12 (STRING (80) RESULT BUF); FORTRAN "READ12";

PROCEDURE PUNCHCARD (STRING (80) VALUE BUF); FORTRAN "PUNCH";

PROCEDURE GETCASE;
   FOR T := 1 UNTIL 7 DO
   BEGIN
   READ11(BUFFER);
   CASE T OF BEGIN
      IMAGE1;
      IMAGE2;
      IMAGE3;
      IMAGE4;
      IMAGE5;
      IMAGE6;
      IMAGE7 END;
   END;

PROCEDURE GETADDCARD;
   BEGIN
   READ12 (BUFFER);
   ACASENO := CONVERT(BUFFER(0|3));
   ADDVARIABLE := BUFFER(4|32);
   ACODE := BUFFER(37|3);
   ACARDS := ACARDS - 1;
   END;

PROCEDURE ADDTRAININFO;
   BEGIN
   WHILE (TCASENO < VAR008) AND (TCARDS > 0) DO
      BEGIN
      TCARDS := TCARDS - 1;
      READ(TCASENO, TRAININFO);
      END;
   VAR019A := IF TCASENO = VAR008 THEN TRAININFO ELSE "      ";
   END;

PROCEDURE ADDOUTPUTCODES;
   BEGIN
   CODELOOP: WHILE (ACASENO < VAR008) AND (ACARDS > 0) DO GETADDCARD;
   IF ACASENO = VAR008 THEN
   BEGIN
```

```
    IF VAR061 = ADDVARIABLE THEN VAR062A := ACODE ELSE
       IF VAR064 = ADDVARIABLE THEN VAR065A := ACODE ELSE
       IF VAR069 = ADDVARIABLE THEN VAR070A := ACODE ELSE
       IF VAR072 = ADDVARIABLE THEN VAR073A := ACODE ELSE
       IF VAR077 = ADDVARIABLE THEN VAR078A := ACODE;
    ACASENO := ACASENO - 1;
    GO TO CODELOOP;
    END;
    END;

PROCEDURE PUNCHNEWCASE;
    FOR I := 1 UNTIL 7 DO BEGIN
       CASE I OF BEGIN
       REIMAGE1;
       REIMAGE2;
       REIMAGE3;
       REIMAGE4;
       REIMAGE5;
       REIMAGE6;
       REIMAGE7 END;
    PUNCHCARD(BUFFER);
    END;

PROCEDURE IMAGE1;
    BEGIN
    VAR001 := BUFFER(0|25);
    VAR002 := CONVERT (BUFFER(25|5));
    VAR002A := BUFFER(25|5);
    VAR003 := BUFFER(30|37);
    VAR004 := CONVERT (BUFFER(67|5));
    VAR004A := BUFFER(67|5);
    VAR005 := CONVERT (BUFFER(72|1));
    VAR005A := BUFFER(72|1);
    VAR006 := BUFFER (73|2);
    VAR007 := CONVERT (BUFFER(75|1));
    VAR007A := BUFFER(75|1);
    VAR008 := CONVERT (BUFFER(76|3));
    VAR008A := BUFFER(76|3);
    VAR009 := CONVERT (BUFFER(79|1));
    VAR009A := BUFFER(79|1);
    END;

PROCEDURE REIMAGE1;
    BEGIN
    BUFFER := " ";
    BUFFER(0|25) := VAR001;
    BUFFER(25|5) := VAR002A;
    BUFFER(30|37) := VAR003;
```

```
    BUFFER(67|5) := VAR004A;
    BUFFER(72|1) := VAR005A;
    BUFFER(73|2) := VAR006;
    BUFFER(75|1) := VAR007A;
    BUFFER(76|3) := VAR008A;
    BUFFER(79|1) := VAR009A;
    END;

PROCEDURE IMAGE2;
    BEGIN
    VAR010 := BUFFER(0|40);
    VAR011 := CONVERT (BUFFER(40|1));
    VAR011A := BUFFER(40|1);
    VAR012 := CONVERT (BUFFER(41|2));
    VAR012A := BUFFER(41|2);
    VAR013 := CONVERT (BUFFER(43|4));
    VAR013A := BUFFER(43|4);
    VAR014 := CONVERT (BUFFER(47|4));
    VAR014A := BUFFER(47|4);
    VAR015 := CONVERT (BUFFER(51|4));
    VAR015A := BUFFER(51|4);
    VAR016 := BUFFER(55|5);
    VAR017 := BUFFER(60|5);
    VAR018 := CONVERT (BUFFER(65|1));
    VAR018A := BUFFER(65|1);
    VAR019 := CONVERT (BUFFER(66|5));
    VAR019A := BUFFER(66|5);
    VAR020 := CONVERT (BUFFER(71|1));
    VAR020A := BUFFER(71|1);
    VAR021 := CONVERT (BUFFER(72|2));
    VAR021A := BUFFER(72|2);
    VAR022 := CONVERT (BUFFER(74|2));
    VAR022A := BUFFER(74|2);
    VAR023 := CONVERT (BUFFER(76|3));
    VAR023A := BUFFER(76|3);
    VAR024 := CONVERT (BUFFER(79|1));
    VAR024A := BUFFER(79|1);
    END;

PROCEDURE REIMAGE2;
    BEGIN
    BUFFER := " ";
    BUFFER(0|40) := VAR010;
    BUFFER(40|1) := VAR011A;
    BUFFER(41|2) := VAR012A;
    BUFFER(43|4) := VAR013A;
    BUFFER(47|4) := VAR014A;
    BUFFER(51|4) := VAR015A;
```

```
    BUFFER(55|5) := VAR016;
    BUFFER(60|5) := VAR017;
    BUFFER(65|1) := VAR018A;
    BUFFER(66|5) := VAR019A;
    BUFFER(71|1) := VAR020A;
    BUFFER(72|2) := VAR021A;
    BUFFER(74|2) := VAR022A;
    BUFFER(76|3) := VAR023A;
    BUFFER(79|1) := VAR024A;
    END;

PROCEDURE IMAGE3;
    BEGIN
    VAR025 := CONVERT (BUFFER(0|3));
    VAR025A := BUFFER(0|3);
    VAR026 := CONVERT (BUFFER(3|1));
    VAR026A := BUFFER(3|1);
    VAR027 := CONVERT (BUFFER(4|3));
    VAR027A := BUFFER(4|3);
    VAR028 := CONVERT (BUFFER(7|1));
    VAR028A := BUFFER(7|1);
    VAR029 := CONVERT (BUFFER(8|3));
    VAR029A := BUFFER(8|3);
    VAR030 := CONVERT (BUFFER(11|1));
    VAR030A := BUFFER(11|1);
    VAR031 := CONVERT (BUFFER(12|3));
    VAR031A := BUFFER(12|3);
    VAR032 := CONVERT (BUFFER(15|1));
    VAR032A := BUFFER(15|1);
    VAR033 := CONVERT (BUFFER(16|3));
    VAR033A := BUFFER(16|3);
    VAR034 := CONVERT (BUFFER(19|1));
    VAR034A := BUFFER(19|1);
    VAR035 := CONVERT (BUFFER(20|3));
    VAR035A := BUFFER(20|3);
    VAR036 := CONVERT (BUFFER(23|1));
    VAR036A := BUFFER(23|1);
    VAR037 := CONVERT (BUFFER(24|3));
    VAR037A := BUFFER(24|3);
    VAR038 := CONVERT (BUFFER(27|1));
    VAR038A := BUFFER(27|1);
    VAR039 := CONVERT (BUFFER(28|3));
    VAR039A := BUFFER(28|3);
    VAR040 := CONVERT (BUFFER(31|1));
    VAR040A := BUFFER(31|1);
    VAR041 := CONVERT (BUFFER(32|3));
    VAR041A := BUFFER(32|3);
    VAR042 := CONVERT (BUFFER(35|1));
```

```
    VAR042A := BUFFER(35|1);
    VAR043 := CONVERT (BUFFER(36|3));
    VAR043A := BUFFER(36|3);
    VAR044 := CONVERT (BUFFER(39|1));
    VAR044A := BUFFER(39|1);
    VAR045 := CONVERT (BUFFER(40|3));
    VAR045A := BUFFER(40|3);
    VAR046 := CONVERT (BUFFER(43|1));
    VAR046A := BUFFER(43|1);
    VAR047 := CONVERT (BUFFER(44|3));
    VAR047A := BUFFER(44|3);
    VAR048 := CONVERT (BUFFER(47|1));
    VAR048A := BUFFER(47|1);
    VAR049 := CONVERT (BUFFER(48|3));
    VAR049A := BUFFER(48|3);
    VAR050 := CONVERT (BUFFER(51|1));
    VAR050A := BUFFER(51|1);
    VAR051 := CONVERT (BUFFER(52|3));
    VAR051A := BUFFER(52|3);
    VAR052 := CONVERT (BUFFER(55|1));
    VAR052A := BUFFER(55|1);
    VAR053 := CONVERT (BUFFER(56|3));
    VAR053A := BUFFER(56|3);
    VAR054 := CONVERT (BUFFER(59|1));
    VAR054A := BUFFER(59|1);
    VAR055 := CONVERT (BUFFER(60|3));
    VAR055A := BUFFER(60|3);
    VAR056 := CONVERT (BUFFER(63|1));
    VAR056A := BUFFER(63|1);
    VAR057 := CONVERT (BUFFER(64|3));
    VAR057A := BUFFER(64|3);
    VAR058 := CONVERT (BUFFER(67|1));
    VAR058A := BUFFER(67|1);
    VAR059 := CONVERT (BUFFER(76|3));
    VAR059A := BUFFER(76|3);
    VAR060 := CONVERT (BUFFER(79|1));
    VAR060A := BUFFER(79|1);
    END;

PROCEDURE REIMAGE3;
    BEGIN
    BUFFER := " ";
    BUFFER(0|3) := VAR025A;
    BUFFER(3|1) := VAR026A;
    BUFFER(4|3) := VAR027A;
    BUFFER(7|1) := VAR028A;
    BUFFER(8|3) := VAR029A;
    BUFFER(11|1) := VAR030A;
```

```
    BUFFER(12|3) := VAR031A;
    BUFFER(15|1) := VAR032A;
    BUFFER(16|3) := VAR033A;
    BUFFER(19|1) := VAR034A;
    BUFFER(20|3) := VAR035A;
    BUFFER(23|1) := VAR036A;
    BUFFER(24|3) := VAR037A;
    BUFFER(27|1) := VAR038A;
    BUFFER(28|3) := VAR039A;
    BUFFER(31|1) := VAR040A;
    BUFFER(32|3) := VAR041A;
    BUFFER(35|1) := VAR042A;
    BUFFER(36|3) := VAR043A;
    BUFFER(39|1) := VAR044A;
    BUFFER(40|3) := VAR045A;
    BUFFER(43|1) := VAR046A;
    BUFFER(44|3) := VAR047A;
    BUFFER(47|1) := VAR048A;
    BUFFER(48|3) := VAR049A;
    BUFFER(51|1) := VAR050A;
    BUFFER(52|3) := VAR051A;
    BUFFER(55|1) := VAR052A;
    BUFFER(56|3) := VAR053A;
    BUFFER(59|1) := VAR054A;
    BUFFER(60|3) := VAR055A;
    BUFFER(63|1) := VAR056A;
    BUFFER(64|3) := VAR057A;
    BUFFER(67|1) := VAR058A;
    BUFFER(76|3) := VAR059A;
    BUFFER(79|1) := VAR060A;
    END;

PROCEDURE IMAGE4;
    BEGIN
    VAR061 := BUFFER(0|32);
    VAR062 := CONVERT (BUFFER(32|3));
    VAR062A := BUFFER(32|3);
    VAR063 := CONVERT (BUFFER(35|3));
    VAR063A := BUFFER(35|3);
    VAR064 := BUFFER(38|32);
    VAR065 := CONVERT (BUFFER(70|3));
    VAR065A := BUFFER(70|3);
    VAR066 := CONVERT (BUFFER(73|3));
    VAR066A := BUFFER(73|3);
    VAR067 := CONVERT (BUFFER(76|3));
    VAR067A := BUFFER(76|3);
    VAR068 := CONVERT (BUFFER(79|1));
    VAR068A := BUFFER(79|1);
```

```
    END;

PROCEDURE REIMAGE4;
    BEGIN
    BUFFER := " ";
    BUFFER(0|32) := VAR061;
    BUFFER(32|3) := VAR062A;
    BUFFER(35|3) := VAR063A;
    BUFFER(38|32) := VAR064;
    BUFFER(70|3) := VAR065A;
    BUFFER(73|3) := VAR066A;
    BUFFER(76|3) := VAR067A;
    BUFFER(79|1) := VAR068A;
    END;

PROCEDURE IMAGE5;
    BEGIN
    VAR069 := BUFFER(0|32);
    VAR070 := CONVERT (BUFFER(32|3));
    VAR070A := BUFFER(32|3);
    VAR071 := CONVERT (BUFFER(35|3));
    VAR071A := BUFFER(35|3);
    VAR072 := BUFFER(38|32);
    VAR073 := CONVERT (BUFFER(70|3));
    VAR073A := BUFFER(70|3);
    VAR074 := CONVERT (BUFFER(73|3));
    VAR074A := BUFFER(73|3);
    VAR075 := CONVERT (BUFFER(76|3));
    VAR075A := BUFFER(76|3);
    VAR076 := CONVERT (BUFFER(79|1));
    VAR076A := BUFFER(79|1);
    END;

PROCEDURE REIMAGE5;
    BEGIN
    BUFFER := " ";
    BUFFER(0|32) := VAR069;
    BUFFER(32|3) := VAR070A;
    BUFFER(35|3) := VAR071A;
    BUFFER(38|32) := VAR072;
    BUFFER(70|3) := VAR073A;
    BUFFER(73|3) := VAR074A;
    BUFFER(76|3) := VAR075A;
    BUFFER(79|1) := VAR076A;
    END;

PROCEDURE IMAGE6;
    BEGIN
```

```
PROCEDURE REDO2;
BEGIN
FOR X := 38 STEP -1 UNTIL 0 DO VAR010(X + 1|1) := VAR010(X|1);
VAR010(0|1) := " ";
FOR X := 0 UNTIL 37 DO IF ((VAR010(X|1) = " ") AND
   (VAR010(X + 1|1) ¬= " ") AND (VAR010(X + 2|1) = " ")) THEN
      BEGIN
      FOR Y := 38 STEP -1 UNTIL (X + 2) DO
         VAR010(Y + 1|1) := VAR010(Y|1);
      VAR010(X + 2|1) := ".";
      END;
FOR X := 0 UNTIL 38 DO IF ((VAR010(X|1) = " ") AND
   (VAR010(X + 1|1) ¬= " ")) THEN
      BEGIN
      FOR Y := 38 STEP -1 UNTIL (X + 1) DO
         VAR010(Y + 1|1) := VAR010(Y|1);
      VAR010(X|2) := " /";
      END;
FOR X := 0 UNTIL 38 DO VAR010(X|1) := VAR010(X + 1|1);
IF VAR011 = 1 THEN VAR013A := VAR014A := VAR015A := "9999";
IF VAR014A = "    " THEN VAR014A := "9999";
IF VAR015A = "    " THEN VAR015A := "9999";
IF VAR016 = "NONE " THEN VAR016 := "00000";
IF (VAR016 = "    ") OR (VAR016 = "NA    ") THEN VAR016 := "99999";
IF VAR017 = "NONE " THEN VAR017 := "00000";
IF (VAR017 = "    ") OR (VAR017 = "NA    ") THEN VAR017 := "99999";
IF VAR018A = " " THEN VAR018A := "9";
IF VAR018A = "3" THEN VAR018A := "1";
IF VAR018A = "6" THEN VAR018A := IF VAR017 = "99999" THEN "1" ELSE "4";
VAR019A := " ";
IF VAR021A = "  " THEN VAR021A := "99";
IF VAR022A = "  " THEN VAR022A := "99";
END;

PROCEDURE REDO3;
BEGIN
IF VAR025A = "   " THEN VAR025A := "999";
IF VAR026A = " " THEN VAR026A := "9";
IF VAR027A = "   " THEN VAR027A := "999";
IF VAR028A = " " THEN VAR028A := "9";
IF VAR029A = "   " THEN VAR029A := "999";
IF VAR030A = " " THEN VAR030A := "9";
IF VAR031A = "   " THEN VAR031A := "999";
IF VAR032A = " " THEN VAR032A := "9";
IF VAR033A = "   " THEN VAR033A := "999";
IF VAR034A = " " THEN VAR034A := "9";
IF VAR035A = "   " THEN VAR035A := "999";
```

```
IF VAR036A = " " THEN VAR036A := "9";
IF VAR037A = "   " THEN VAR037A := "999";
IF VAR038A = " " THEN VAR038A := "9";
IF VAR039A = "   " THEN VAR039A := "999";
IF VAR040A = " " THEN VAR040A := "9";
IF VAR041A = "   " THEN VAR041A := "999";
IF VAR042A = " " THEN VAR042A := "9";
IF VAR043A = "   " THEN VAR043A := "999";
IF VAR044A = " " THEN VAR044A := "9";
IF VAR045A = "   " THEN VAR045A := "999";
IF VAR046A = " " THEN VAR046A := "9";
IF VAR047A = "   " THEN VAR047A := "999";
IF VAR048A = " " THEN VAR048A := "9";
IF VAR049A = "   " THEN VAR049A := "999";
IF VAR050A = " " THEN VAR050A := "9";
IF VAR051A = "   " THEN VAR051A := "999";
IF VAR052A = " " THEN VAR052A := "9";
IF VAR053A = "   " THEN VAR053A := "999";
IF VAR054A = " " THEN VAR054A := "9";
IF VAR055A = "   " THEN VAR055A := "999";
IF VAR056A = " " THEN VAR056A := "9";
IF VAR057A = "   " THEN VAR057A := "999";
IF VAR058A = " " THEN VAR058A := "9";
END;

PROCEDURE REDO4;
BEGIN
VAR062A := VAR065A := "   ";
IF VAR063A = "   " THEN VAR063A := IF VAR061 = "      " THEN
   "000" ELSE "999";
IF VAR066A = "   " THEN VAR066A := IF VAR064 = "      " THEN
   "000" ELSE "999";
END;

PROCEDURE REDO5;
BEGIN
VAR070A := VAR073A := "   ";
IF VAR071A = "   " THEN VAR071A := IF VAR069 = "      " THEN
   "000" ELSE "999";
IF VAR074A = "   " THEN VAR074A := IF VAR072 = "      " THEN
   "000" ELSE "999";
END;

PROCEDURE REDO6;
BEGIN
VAR078A := "   ";
IF VAR079A = "   " THEN VAR079A := IF VAR077 = "      "THEN
   "000" ELSE "999";
```

```
IF VAR080A = "   " THEN VAR080A := "000";
END;

PROCEDURE REDO7;
BEGIN
IF VAR084A = " " THEN VAR084A := "0";
END;

PROCEDURE INITIALIZE;
   BEGIN
   REWIND11;
   REWIND12;
   READ11(BUFFER);
   QCASES := CONVERT(BUFFER(0|3));
   READ12(BUFFER);
   ACARDS := CONVERT(BUFFER(0|3));
   READ (TCARDS);
   TCASENO := ACASENO := 0;
   END;

INITIALIZE;
FOR I := 1 UNTIL QCASES DO
   BEGIN
   GETCASE;
   REDO1;
   REDO2;
   REDO3;
   REDO4;
   REDO5;
   REDO6;
   REDO7;
   ADDTRAININFO;
   ADDOUTPUTCODES;
   PUNCHNEWCASE;
   END;
END.
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//           DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//           DD DISP=SHR,DSN=SYS1.FORTLIB
//LINK.SYSPRINT DD DUMMY
//LINK.SYSIN  DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.FOALG3,
//           DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),SPACE=(CYL,(5,1)),
//           DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT07F001 DD SYSOUT=B
//GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QCARDS,
//           DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,1)),
//           DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.ACARDS,
```

```
//             DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,1)),
//             DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.SYSIN     DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.TCARDS,
//             DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,1)),
//             DISP=(OLD,KEEP),LABEL=(,,,IN)
```

APPENDIX F

SAMPLE E

INTELLA SOURCE DECK SPSS PROGRAM

```
//HUBER JOB (2600,0678,YS42),'HUBER,E.W.'
// EXEC SPSS,REGION=250K
//FT04F001 DD DSNAME=S2600.INTELLA,UNIT=2311,VOL=SER=SYS003,
// DISP=(NEW,KEEP),DCB=BLKSIZE=3624,LABEL=EXPDT=75100,
// SPACE=(CYL,(3,2),RLSE)
//SYSIN DD *
FILE NAME    INTELLA  YS42 TASK ANALYSIS GROUP', FIRST QUESTIONNAIRE
RUN NAME     YS42 TASK ANALYSIS GROUP THESIS, FIRST QUESTIONNAIRE
VARIABLE LIST VAR001 TO VAR086
#OF CASES    225
INPUT MEDIUM CARD
INPUT FORMAT FIXED (A25,F5.0,A37,F5.0,F1.0,A2,F1.0,F3.0,F1.0/
             17(F3.0,F1.0),3X,F3.0,F1.0/
             A32,A3,F3.0,A32,A3,F3.0,F1.0/
             A32,A3,F3.0,A32,A3,F3.0,F1.0/
             A32,A3,F3.0,35X,F3.0,F1.0/
             A75,F1.0,F3.0,F1.0)
MISSING VALUES VAR005,VAR007,VAR009,VAR011,VAR018,VAR020,VAR024,VAR026,
             VAR028,VAR030,VAR033,VAR034,VAR036,VAR038,VAR040,VAR042,
             VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,VAR058,
             VAR060,VAR068,VAR070,VAR032,VAR084,VAR086 (9)/
             VAR022,VAR024,VAR026,VAR027,VAR029,VAR031,VAR033,VAR035,
             VAR037,VAR039,VAR041,VAR043,VAR045,VAR047,VAR049,VAR051,
             VAR053,VAR055,VAR057,VAR059,VAR063,VAR065,VAR067,VAR071,
             VAR074,VAR075,VAR077,VAR080,VAR081,VAR085,(999)/
             VAR062,VAR005,VAR076,VAR073,VAR078 (' ')/
             VAR013 TO VAR015 (9999)/
             VAR002,VAR004,VAR019 (99999)/
             VAR061,VAR064,VAR069,VAR072,VAR077 (' ')
VAR LABELS   VAR001,COMMAND NAME/
             VAR002,BILLET SEQUENCE CODE/
             VAR003,BILLET TITLE/
             VAR004,UNIT IDENTIFICATION CODE/
             VAR005,CONUS-OVERSEAS CODE/
             VAR006,COUNTY-STATE CODE/
             VAR007,CARD # SEQUENCE/
             VAR008,CARD # ONE/
             VAR010,RESPONDENTS NAME/
             VAR011,RESPONDENTS RANK/
             VAR012,RESPONDENTS AGE/
             VAR013,RESPONDENTS DESIGNATOR/
             VAR014,RESPONDENTS PREVIOUS DESIGNATOR/
             VAR015,RESPONDENTS FIRST DESIGNATOR/
             VAR016,BILLET SUBSPECIALTY CODE/
```

```
VAR017,RESPONDENTS SUBSPECIALTY CODE/
VAR018,EDUCATIONAL LEVEL/
VAR019,TRAINING USED IN THIS BILLET/
VAR020,FIRST INTELL BILLET, NO-YES/
VAR021,YEARS PREVIOUS INTELL EXPERIENCE/
VAR022,MONTHS IN THIS BILLET/
VAR023,CARD #2 SEQUENCE/
VAR024,CARD TWO NUMBER/
VAR025,% INTELL OFFICE ADMIN/
VAR026,VALID INTELL OFFICE ADMIN/
VAR027,% BRIEFS AND DEBRIEFS/
VAR028,VALID BRIEFS AND DEBRIEFS/
VAR029,% BUDGETS AND BUDGETING/
VAR030,VALID BUDGETS AND BUDGETING/
VAR031,% CHARTS AND AUDIO-VISUAL AIDS/
VAR032,VALID CHARTS AND AUDIO-VISUAL AIDS/
VAR033,% COUNTERINTELLIGENCE STUDIES/
VAR034,VALID COUNTERINTELLIGENCE STUDIES/
VAR035,% DATA ANALYSIS/
VAR036,VALID DATA ANALYSIS/
VAR037,% DECISIONS AND RECOMMENDATIONS/
VAR038,VALID DECISIONS AND RECOMMENDATIONS/
VAR039,% ESTIMATES/
VAR040,VALID ESTIMATES/
VAR041,% INTELL ANNEXES TO OPORDS/
VAR042,VALID INTELL ANNEXES TO OPORDS/
VAR043,% INTELL COLLECTION PLANS/
VAR044,VALID INTELL COLLECTION PLANS/
VAR045,% INTELL COLLECTION TASKING/
VAR046,VALID INTELL COLLECTION TASKING/
VAR047,% INTELLIGENCE REPORTS/
VAR048,VALID INTELLIGENCE REPORTS/
VAR049,% INTELLIGENCE STUDIES/
VAR050,VALID INTELLIGENCE STUDIES/
VAR051,% INTERFACE ADP-TELECOMMS/
VAR052,VALID INTERFACE ADP-TELECOMMS/
VAR053,% ORDERS OF BATTLE/
VAR054,VALID ORDERS OF BATTLE/
VAR055,% PHYSICAL SECURITY/
VAR056,VALID PHYSICAL SECURITY/
VAR057,% TACTICAL PLOTS/
VAR058,VALID TACTICAL PLOTS/
VAR059,CARD #3 SEQUENCE/
VAR060,CARD THREE NUMBER/
VAR061,FIRST INTELL OUTPUT ADDED/
VAR062,CODED FIRST ADDITIONAL OUTPUT/
VAR063,% FIRST INTELL OUTPUT ADDED/
VAR064,SECOND INTELL OUTPUT ADDED/
```

```
                VAR065,CODED SECOND ADDITIONAL OUTPUT/
                VAR066,% SECOND INTELL OUTPUT ADDED/
                VAR067,CARD #4 SEQUENCE/
                VAR068,CARD FOUR NUMBER/
                VAR069,THIRD INTELL OUTPUT ADDED/
                VAR070,CODED THIRD ADDITIONAL OUTPUT/
                VAR071,% THIRD INTELL OUTPUT ADDED/
                VAR072,FOURTH INTELL OUTPUT ADDED/
                VAR073,CODED FOURTH ADDITIONAL OUTPUT/
                VAR074,% FOURTH INTELL OUTPUT ADDED/
                VAR075,CARD #5 SEQUENCE/
                VAR076,CARD FIVE NUMBER/
                VAR077,FIFTH INTELL OUTPUT ADDED/
                VAR078,CODED FIFTH ADDITIONAL OUTPUT/
                VAR079,% FIFTH INTELL OUTPUT ADDED/
                VAR080,% NON-INTELLIGENCE OUTPUTS/
                VAR081,CARD #6 SEQUENCE/
                VAR082,CARD SIX NUMBER/
                VAR083,RESPONDENTS COMMENTS/
                VAR084,ARE COMMENTS CONTINUED?/
                VAR085,CARD #7 SEQUENCE/
                VAR086,CARD SEVEN NUMBER
COMMENT         THE FOLLOWING UNIT IDENTIFICATION CODES LISTED FOR
                VAR004 ARE VALID UIC'S UNLESS THE NUMBER BEGINS WITH 999XX.
COMMENT         SEQUENCE NUMBERS, VARS 003, 023, 059, 067, 075, 081, AND 085,
                ARE KEYED IN THE FOLLOWING MANNER:
                LCDR MOUNT HAS 001 THROUGH 199
                LT FOSTER HAS 200 THROUGH 399
                LT BICKELL HAS 400 THROUGH 599
                LT HUBER HAS 600 THROUGH 799
                LT WATSON HAS 800 THROUGH 999
VALUE LABELS    VAR004 (03360) USS SARATOGA
                       (03362) USS INDEPENDENCE
                       (03363) USS KITTY HAWK
                       (03321) USS HANCOCK
                       (03334) USS ORISKANY
                       (03341) USS MIDWAY
                       (03342) USS F D ROOSEVELT
                       (03343) USS CORAL SEA
                       (03359) USS FORRESTAL
                       (03361) USS RANGER
                       (03364) USS CONSTELLATION
                       (03366) USS AMERICA
                       (03367) USS KENNEDY
                       (03365) USS ENTERPRISE
                       (05840) USS BLUE RIDGE
                       (20001) USS MOUNT WHITNEY
                       (62856) NAF LAJES
```

(60200) NAS CECIL FIELD
(00213) NAS KEY WEST
(57007) COMIDEASTFOR
(00309) NB GUANTANAMO
(62769) NB SUBIC
(64591) JSTPS
(99901) COMCARGRU ONE
(99902) COMCARGRU TWO
(99903) COMCARGRU THREE
(99904) COMCARGRU FOUR
(99905) COMCARGRU FIVE
(99906) COMCARGRU SIX
(99907) COMCARGRU SEVEN
(63126) MISSILE CENTER PT MUGU
(30883) NOSIC
(66967) FOSIC NORFOLK
(66842) FOSIC LONDON
(66600) FOSIF ROTA
(66970) FOSIF WESTPAC
(63013) NUWEPNTRAGRUPAC
(57012) COMNAVAIRLANT
(57025) COMNAVAIRPAC
(09550) COMFAIRMED
(09117) COMFAIRKEF
(99908) COMPATWING ONE
(63981) COMPATWINGSLANT
(05917) COMPATWINGSPAC
(57015) COMPHIBLANT
(57019) COMPHIBPAC
(55297) COMPHIBRON ONE
(55335) COMPHIBRON THREE
(55269) COMPHIBRON FIVE
(55281) COMPHIBRON SEVEN
(00510) COMNAVSOUTH-COM15
(99909) USSOUTHCOM
(99910) CINCEASTLANT
(00061) CINCUSNAVEUR
(57006) COMNAVFORJAPAN
(62894) COMNAVFORKOREA
(31585) CINC UNC-USF KOREA
(57014) COMICEDEFOR
(63842) COMANTDC
(62822) COMUSTDC
(62982) USMAC JUSMAG THAI
(08961) COMSECONDFLT
(57037) COMTHIRDFLT
(57042) COMSIXTHFLT
(57024) COMSEVENTHFLT

(99911) CINCAL
(00038) CINCPAC
(00070) CINCPACFLT
(00066) CINCLANT
(00060) CINCLANTFLT
(63420) NIPSSA
(63415) DIA
(99912) FICEUR
(63186) FICPAC
(99913) FICEURLANT
(68166) NISC
(65134) PACOMELINTCEN
(65792) LANTCOMELINTCEN
(66400) NIPSTRAFAC
(99914) CTF 168
(99915) CTG 168.1
(99916) CTG 168.2
(99917) CTG 168.3
(99918) FITCLANT
(99919) FITCPAC
(00015) COMNAVINTCOM
(62930) NFOIO
(63285) NISHQ
(63051) NISO CHASN
(65493) NISO EUROPE
(99920) NISO JAPAN
(99921) NISO MARIANAS
(63053) NISO NEW ORLEANS
(63054) NISO NEW YORK
(63055) NISO NORFOLK
(63064) NISO HAWAII
(63057) NISO SAN DIEGO
(63058) NISO SAN FRANCISCO
(99922) COMCRUDESGRU EIGHT
(99923) COMCRUDESGRU TWELVE
(31695) NAVCOSSACT
(99924) FASOTRAGRULANT BRUNS
(96013) CNA
(99925) COMFLTCORGRU TWO
(62919) COMCARIBSEAFRON
(62928) COMEASTSEAFRON
(99926) COMSUBGRU FIVE
(99927) COMSUBGRU SEVEN
(99928) COMSUBGRU EIGHT
(57016) COMSUBLANT
(57020) COMSUBPAC
(99929) COMAEWWINGPAC
(99930) COMRECONATKWING ONE

(99931) VC ONE
(09930) VQ ONE
(09946) VQ TWO
(09519) COMATWING ONE
(99932) PHIBSCOL CORONADO
(99933) IPAC
(99934) NRRF KAMISEYA CTF72
(99935) COMUSNAVPHIL-CTF 72
(99936) CNO OP-96
(99937) NFOIO FRIENDSHIP ANNEX
(99938) DIA POMPONIO PLAZA
(99939) DIA ANACOSTIA ANNEX
(99940) DIA ARLINGTON HALL STATION
(99941) DIA WASH NAVY YARD ANNEX
(99942) DIA NSA ANNEX
(99943) DIA ANMCC ANNEX
(99944) DIA NEACP
(99945) DIA CANADIAN DEF HQ
(99946) DIA NATL MIL INTELL CENTER/
VAR005 (0) CONUS
(1) EUROPE
(2) PACIFIC
(3) ATLANTIC-MED AFLOAT
(4) PACIFIC AFLOAT/
VAR006 ('AF') AFLOAT COMMANDS
('AK') ALASKA
('AZ') AZORES
('CA') CALIFORNIA
('CN') NATIONALIST CHINA
('CZ') PANAMA CANAL ZONE
('DC') WASHINGTON DC
('FL') FLORIDA
('GM') GUAM
('GT') GUANTANAMO
('HI') HAWAII
('IC') ICELAND
('IT') ITALY
('JP') JAPAN
('KO') KOREA
('LA') LOUISIANA
('MA') MARIANAS
('MD') MARYLAND
('ME') MAINE
('NB') NEBRASKA
('NY') NEW YORK
('PA') PENNSYLVANIA
('PI') PHILIPPINE ISLANDS
('PR') PUERTO RICO

```
                ('SC') SOUTH CAROLINA
                ('SP') SPAIN
                ('TH') THAILAND
                ('UK') UNITED KINGDOM
                ('VA') VIRGINIA/
        VAR007  (1) LCDR MOUNT
                (2) LT FOSTER
                (3) LT BICKELL
                (4) LT HUBER
                (5) LT WATSON/
        VAR011  (1) CIVILIAN
                (3) LIEUTENANT
                (4) LCDR
                (5) CDR
                (6) CAPT/
        VAR018  (0) LESS THAN BACHELORS DEGREE
                (1) BACHELORS LEVEL
                (2) POSTGRADUATE STUDIES
                (4) MASTERS LEVEL
                (5) DOCTORAL LEVEL/
        VAR020  (0) NOT FIRST
                (1) FIRST/
        VAR026,VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,
        VAR042,VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,
        VAR058  (0) NOT VALID
                (1) VALID/
        VAR084  (0) NO COMMENTS
                (1) NO FURTHER COMMENTS
                (2) ADDITIONAL COMMENTS
PRINT FORMATS   VAR001,VAR003,VAR006,VAR010,VAR016,VAR017,VAR061,VAR062,
        VAR064,VAR065,VAR069,VAR070,VAR072,VAR073,VAR077,VAR078,
        VAR083 (A)
        VAR002,VAR004,VAR005,VAR007 TO VAR009,VAR011 TO VAR015,
        VAR018 TO VAR060,VAR062,VAR063,VAR065 TO VAR068,VAR070,
        VAR071,VAR073 TO VAR076,VAR078 TO VAR082,VAR084 TO VAR086 (0)
CONDESCRIPTIVE  VAR011, VAR012, VAR018, VAR020 TO VAR022, VAR025 TO VAR058,
        VAR063, VAR066, VAR071, VAR074, VAR079, VAR080
STATISTICS      ALL
READ INPUT DATA
SAVE FILE
FINISH
```

APPENDIX F

SAMPLE F

JCL DECK TO PRINT
COMPUTER PRODUCED DELPHI QUESTIONNAIRE

```
//HUBERTPS JOB (2500,)678,YS421,'HUBER,E.W.',TIME=90,TYPRUN=HOLD
// EXEC PGM=TPS,PARM='TN'
//STEPLIB DD DSN=SYS3.L,DISP=SHR,UNIT=2314,VOL=SER=LINDA
//SYSPRINT DD UNIT=1403,DCB=TN
//SYSIN DD UNIT=2321,VOL=SER=ELJ023,DISP=(OLD,KEEP),
//   DCB=(RECFM=FBLRECL=80,BLKSIZE=2000),SPACE=(2600,TPSOUT
```

```
//HUBER3 JOB (2600,0578,YS42),'HUBER,E.W.',TIME=60
// EXEC ALGWCLG,PARM.GO='SIZE=220K',REGION=375K
//ALGOL.SYSIN DD *
%ALGOL SIZE=220K
BEGIN

STRING (25) VAR001;
STRING (37) VAR003;
STRING (2) VAR006;
STRING (5) VAR002A, VAR004A, VAR016, VAR017, VAR019;
STRING (40) VAR010;
STRING (32) VAR061, VAR064, VAR069, VAR072, VAR077;
STRING (75) VAR083;
STRING (1) VAR005A, VAR007A, VAR009A, VAR011A, VAR018A, VAR020A,
   VAR024A, VAR026A, VAR028A, VAR030A, VAR032A, VAR034A, VAR036A,
   VAR038A, VAR040A, VAR042A, VAR044A, VAR046A, VAR048A, VAR050A,
   VAR052A, VAR054A, VAR056A, VAR058A, VAR05JA, VAR068A, VAR076A,
   VAR082A, VAR084A, VAR086A;
STRING (2) VAR012A, VAR021A, VAR022A;
STRING (3) VAR008A, VAR023A, VAR025A, VAR027A, VAR029A, VAR031A,
   VAR033A, VAR035A, VAR037A, VAR039A, VAR041A, VAR043A, VAR045A,
   VAR047A, VAR049A, VAR051A, VAR053A, VAR055A, VAR057A, VAR059A,
   VAR062, VAR063A, VAR065, VAR066A, VAR067A, VAR070, VAR071A,
   VAR073, VAR074A, VAR075A, VAR078, VAR079A, VAR080A, VAR081A,
   VAR085A;
STRING (4) VAR013A, VAR014A, VAR015A;
STRING (80) BUFFER;
INTEGER VAR002, VAR004, VAR005, VAR007, VAR008, VAR009,
   VAR011, VAR012, VAR013, VAR014, VAR015, VAR018, VAR020, VAR021,
   VAR022, VAR023, VAR024, VAR025, VAR026, VAR027, VAR028, VAR029,
   VAR030, VAR031, VAR032, VAR033, VAR034, VAR035, VAR036, VAR037,
   VAR038, VAR039, VAR040, VAR041, VAR042, VAR043, VAR044, VAR045,
   VAR046, VAR047, VAR048, VAR049, VAR050, VAR051, VAR052, VAR053,
   VAR054, VAR055, VAR056, VAR057, VAR058, VAR059, VAR060, VAR063,
   VAR066, VAR067, VAR068, VAR071, VAR074, VAR075, VAR076, VAR079,
   VAR080, VAR081, VAR082, VAR084, VAR085, VAR086, QCASES, TPSNO,
   ADDRESSUIC, ADDRESSCARDNO;
LOGICAL FLAGCASE, FLAGRANK, FLAGAGE, FLAGDESIG, FLAGBILLETSSCODE,
   FLAGRESPSSCODE, FLAGEDUC, FLAGFIRSTCODE, FLAGYEARS,
   FLAGMONTHS, FLAGBSC, ADDOUTPUT1, ADDOUTPUT2, ADDOUTPUT3,
   ADDOUTPUT4, ADDOUTPUT5;

PROCEDURE REWINDQCARDFILE; FORTRAN "RWND11";

PROCEDURE REWINDTPSFILE; FORTRAN "RWND12";

PROCEDURE REWINDADDRESSFILE; FORTRAN "RWND13";
```

```
PROCEDURE GETQCARD (STRING (80) RESULT BUF); FORTRAN "READ11";

PROCEDURE GETTPSCARD (STRING (80) RESULT BUF); FORTRAN "READ12";

PROCEDURE GETADDRESSCARD (STRING (80) RESULT BUF); FORTRAN "READ13";

PROCEDURE PUTTPSCARD (STRING (80) VALUE BUF);
   BEGIN
   PROCEDURE PUTIT (STRING (80) VALUE BUFX); FORTRAN "RITE14";
   BUF[0|10] := " ";
   PUTIT (BUF);
   END;


PROCEDURE PUTTOLABEL (STRING (80) VALUE BUF); FORTRAN "RITE15";

PROCEDURE PUTFROMLABEL (STRING (80) VALUE BUF); FORTRAN "RITE16";

PROCEDURE GETCASE;
   FOR T := 1 UNTIL 7 DO BEGIN
      GETQCARD (BUFFER);
      CASE T OF BEGIN
      IMAGE1;
      IMAGE2;
      IMAGE3;
      IMAGE4;
      IMAGE5;
      IMAGE6;
      IMAGE7 END;
   END;

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
   BEGIN INTEGER INTVALUE, POSITION;
   INTVALUE := POSITION := 0;
   WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(U|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;

PROCEDURE IMAGE1;
   BEGIN
   VAR001 := BUFFER[0|25];
   VAR002 := CONVERT (BUFFER(25|5));
   VAR002A := BUFFER(25|5);
   VAR003 := BUFFER(30|37);
   VAR004 := CONVERT (BUFFER(67|5));
```

```
    VAR004A := BUFFER(67|5);
    VAR005 := CONVERT (BUFFER(72|1));
    VAR005A := BUFFER(72|1);
    VAR006 := BUFFER (73|2);
    VAR007 := CONVERT (BUFFER(75|1));
    VAR007A := BUFFER(75|1);
    VAR008 := CONVERT (BUFFER(76|3));
    VAR008A := BUFFER(76|3);
    VAR009 := CONVERT (BUFFER(79|1));
    VAR009A := BUFFER(79|1);
    END;

PROCEDURE IMAGE2;
    BEGIN
    VAR010 := BUFFER(0|40);
    VAR011 := CONVERT (BUFFER(40|1));
    VAR011A := BUFFER(40|1);
    VAR012 := CONVERT (BUFFER(41|2));
    VAR012A := BUFFER(41|2);
    VAR013 := CONVERT (BUFFER(43|4));
    VAR013A := BUFFER(43|4);
    VAR014 := CONVERT (BUFFER(47|4));
    VAR014A := BUFFER(47|4);
    VAR015 := CONVERT (BUFFER(51|4));
    VAR015A := BUFFER(51|4);
    VAR016 := BUFFER(55|5);
    VAR017 := BUFFER(60|5);
    VAR018 := CONVERT (BUFFER(65|1));
    VAR018A := BUFFER(65|1);
    VAR019 := BUFFER(66|5);
    VAR020 := CONVERT (BUFFER(71|1));
    VAR020A := BUFFER(71|1);
    VAR021 := CONVERT (BUFFER(72|2));
    VAR021A := BUFFER(72|2);
    VAR022 := CONVERT (BUFFER(74|2));
    VAR022A := BUFFER(74|2);
    VAR023 := CONVERT (BUFFER(76|3));
    VAR023A := BUFFER(76|3);
    VAR024 := CONVERT (BUFFER(79|1));
    VAR024A := BUFFER(79|1);
    END;

PROCEDURE IMAGE3;
    BEGIN
    VAR025 := CONVERT (BUFFER(0|3));
    VAR025A := BUFFER(0|3);
    VAR026 := CONVERT (BUFFER(3|1));
    VAR026A := BUFFER(3|1);
```

```
VAR027 := CONVERT (BUFFER(4|3));
VAR027A := BUFFER(4|3);
VAR028 := CONVERT (BUFFER(7|1));
VAR028A := BUFFER(7|1);
VAR029 := CONVERT (BUFFER(8|3));
VAR029A := BUFFER(8|3);
VAR030 := CONVERT (BUFFER(11|1));
VAR030A := BUFFER(11|1);
VAR031 := CONVERT (BUFFER(12|3));
VAR031A := BUFFER(12|3);
VAR032 := CONVERT (BUFFER(15|1));
VAR032A := BUFFER(15|1);
VAR033 := CONVERT (BUFFER(16|3));
VAR033A := BUFFER(16|3);
VAR034 := CONVERT (BUFFER(19|1));
VAR034A := BUFFER(19|1);
VAR035 := CONVERT (BUFFER(20|3));
VAR035A := BUFFER(20|3);
VAR036 := CONVERT (BUFFER(23|1));
VAR036A := BUFFER(23|1);
VAR037 := CONVERT (BUFFER(24|3));
VAR037A := BUFFER(24|3);
VAR038 := CONVERT (BUFFER(27|1));
VAR038A := BUFFER(27|1);
VAR039 := CONVERT (BUFFER(28|3));
VAR039A := BUFFER(28|3);
VAR040 := CONVERT (BUFFER(31|1));
VAR040A := BUFFER(31|1);
VAR041 := CONVERT (BUFFER(32|3));
VAR041A := BUFFER(32|3);
VAR042 := CONVERT (BUFFER(35|1));
VAR042A := BUFFER(35|1);
VAR043 := CONVERT (BUFFER(36|3));
VAR043A := BUFFER(36|3);
VAR044 := CONVERT (BUFFER(39|1));
VAR044A := BUFFER(39|1);
VAR045 := CONVERT (BUFFER(40|3));
VAR045A := BUFFER(40|3);
VAR046 := CONVERT (BUFFER(43|1));
VAR046A := BUFFER(43|1);
VAR047 := CONVERT (BUFFER(44|3));
VAR047A := BUFFER(44|3);
VAR048 := CONVERT (BUFFER(47|1));
VAR048A := BUFFER(47|1);
VAR049 := CONVERT (BUFFER(48|3));
VAR049A := BUFFER(48|3);
VAR050 := CONVERT (BUFFER(51|1));
VAR050A := BUFFER(51|1);
```

```
    VAR051 := CONVERT (BUFFER(52|3));
    VAR051A := BUFFER(52|3);
    VAR052 := CONVERT (BUFFER(55|1));
    VAR052A := BUFFER(55|1);
    VAR053 := CONVERT (BUFFER(56|3));
    VAR053A := BUFFER(56|3);
    VAR054 := CONVERT (BUFFER(59|1));
    VAR054A := BUFFER(59|1);
    VAR055 := CONVERT (BUFFER(60|3));
    VAR055A := BUFFER(60|3);
    VAR056 := CONVERT (BUFFER(63|1));
    VAR056A := BUFFER(63|1);
    VAR057 := CONVERT (BUFFER(64|3));
    VAR057A := BUFFER(64|3);
    VAR058 := CONVERT (BUFFER(67|1));
    VAR058A := BUFFER(67|1);
    VAR059 := CONVERT (BUFFER(76|3));
    VAR059A := BUFFER(76|3);
    VAR060 := CONVERT (BUFFER(79|1));
    VAR060A := BUFFER(79|1);
    END;

PROCEDURE IMAGE4;
    BEGIN
    VAR061 := BUFFER(0|32);
    VAR062 := BUFFER(32|3);
    VAR063 := CONVERT (BUFFER(35|3));
    VAR063A := BUFFER(35|3);
    VAR064 := BUFFER(38|32);
    VAR065 := BUFFER(70|3);
    VAR066 := CONVERT (BUFFER(73|3));
    VAR066A := BUFFER(73|3);
    VAR067 := CONVERT (BUFFER(76|3));
    VAR067A := BUFFER(76|3);
    VAR068 := CONVERT (BUFFER(79|1));
    VAR068A := BUFFER(79|1);
    END;

PROCEDURE IMAGE5;
    BEGIN
    VAR069 := BUFFER(0|32);
    VAR070 := BUFFER(32|3);
    VAR071 := CONVERT (BUFFER(35|3));
    VAR071A := BUFFER(35|3);
    VAR072 := BUFFER(38|32);
    VAR073 := BUFFER(70|3);
    VAR074 := CONVERT (BUFFER(73|3));
    VAR074A := BUFFER(73|3);
```

```
    VAR075 := CONVERT (BUFFER(76|3));
    VAR075A := BUFFER(76|3);
    VAR076 := CONVERT (BUFFER(79|1));
    VAR076A := BUFFER(79|1);
    END;

PROCEDURE IMAGE6;
    BEGIN
    VAR077 := BUFFER(0|32);
    VAR078 := BUFFER(32|3);
    VAR079 := CONVERT (BUFFER(35|3));
    VAR079A := BUFFER(35|3);
    VAR080 := CONVERT (BUFFER(38|3));
    VAR080A := BUFFER(38|3);
    VAR081 := CONVERT (BUFFER(76|3));
    VAR081A := BUFFER(76|3);
    VAR082 := CONVERT (BUFFER(79|1));
    VAR082A := BUFFER(79|1);
    END;

PROCEDURE IMAGE7;
    BEGIN
    VAR083 := BUFFER(0|75);
    VAR084 := CONVERT (BUFFER(75|1));
    VAR084A := BUFFER(75|1);
    VAR085 := CONVERT (BUFFER(76|3));
    VAR085A := BUFFER(76|3);
    VAR086 := CONVERT (BUFFER(79|1));
    VAR086A := BUFFER(79|1);
    END;

PROCEDURE BLOCK1;
    BEGIN
    BUFFER := " ";
    BUFFER(10|6) := "-AT072";
    BUFFER(16|3) := VAR008A;
    PUTTPSCARD(BUFFER);
    END;

PROCEDURE BLOCK2;
    BEGIN
    PROCEDURE COMPRESS (STRING (80) VALUE RESULT BUF);
       IF BUF ¬= " " THEN BEGIN
       FOR X := 0 UNTIL 77 DO IF BUF(X|1) = "/" THEN
       FOR Y := X UNTIL 78 DO BUF(Y|1) := BUF(Y+1|1);
       WHILE (BUF(0|1) = " ") AND (BUF ¬= " ") DO
          BUF(0|70) := BUF(1|70);
       END;
```

```
STRING (80) ARRAY LABELLINE (1::12);
FOR X := 1 UNTIL 12 DO LABELLINE(X) := " ";
IF VAR004 <= ADDRESSUIC THEN RESTARTADDRESS;
WHILE VAR004 > ADDRESSUIC DO GETNEXTADDRESS;
IF VAR004 = ADDRESSUIC THEN WHILE VAR004 = ADDRESSUIC DO
   BEGIN
   BUFFER(0|10) := " ";
   WHILE (BUFFER(10|1) = " ") AND (BUFFER(10|60) ¬= " ") DO
      FOR X := 10 UNTIL 70 DO BUFFER(X|1) := BUFFER(X+1|1);
   IF (ADDRESSCARDNO >= 1) AND (ADDRESSCARDNO <= 5) THEN
      LABELLINE(ADDRESSCARDNO) := BUFFER(10|60);
   FOR X := 1 UNTIL 3 DO FOR Y := 70 STEP -1 UNTIL 10 DO
      BUFFER(Y+1|1) := BUFFER(Y|1);
   BUFFER(10|3) := "-DB";
   PUTTPSCARD(BUFFER);
   GETADDRESSCARD(BUFFER);
   ADDRESSUIC := CONVERT(BUFFER(0|5));
   ADDRESSCARDNO := CONVERT(BUFFER(5|1));
   END;
BUFFER := " ";
BUFFER(10|12) := "-SP001/ATTN:";
PUTTPSCARD(BUFFER);
BUFFER := " ";
BUFFER(10|8) := IF ¬((VAR011 >= 1) AND (VAR011 <= 6)) THEN " "
   ELSE CASE VAR011 OF
   ("/MR.", " ", "/L/T", "/L/C/D/R", "/C/D/R", "/C/A/P/T");
PUTTPSCARD(BUFFER);
BUFFER := " ";
BUFFER(10|40) := VAR010;
FOR X := 10 UNTIL 40 DO IF BUFFER(X|1) = "#" THEN
   BUFFER(X|1) := " ";
BUFFER(55|6) := "-SP003";
PUTTPSCARD(BUFFER);
FOR X := 5 STEP -1 UNTIL 1 DO LABELLINE(X+1) := LABELLINE(X);
LABELLINE(1) := " ";
LABELLINE(1)(25|3) := VAR008A;
FOR X := 2 UNTIL 6 DO COMPRESS(LABELLINE(X));
COMMENT THIS WRITES THE SMALL "FROM LABEL";
FOR X := 1 UNTIL 8 DO PUTFROMLABEL(LABELLINE(X)(0|34));
LABELLINE(9) := "ATTN:";
LABELLINE(10) := VAR010;
COMPRESS(LABELLINE(10));
FOR X := 0 UNTIL 50 DO IF LABELLINE(10)(X|1) = "#" THEN
   LABELLINE(10)(X|1) := " ";
COMPRESS(LABELLINE(10));
FOR X := 45 STEP -1 UNTIL 0 DO
   LABELLINE(10)(X+5|1) := LABELLINE(10)(X|1);
LABELLINE(10)(0|5) := " ";
```

```
    LABELLINE(10)(0|4) := IF ¬((VAR011 >= 1) AND (VAR011 <= 6))
       THEN " " ELSE CASE VAR011 OF
       (" MR.", " ", "  LT", "LCDR", " CDR", "CAPT");
    COMPRESS(LABELLINE(10));
    FOR X := 1 UNTIL 12 DO FOR Y := 60 STEP -1 UNTIL 0 DO
       LABELLINE(X)(Y+2|1) := LABELLINE(X)(Y|1);
    FOR X := 1 UNTIL 12 DO LABELLINE(X)(0|2) := " ";
    COMMENT THIS WRITES THE LARGE "TO LABEL";
    FOR X := 1 UNTIL 12 DO PUTTOLABEL(LABELLINE(X)(0|40));
    FOR X := 1 UNTIL 12 DO LABELLINE(X) := " ";
    LABELLINE(1)(25|3) := VAR008A;
    LABELLINE(2)(2|30) := "SUPERINTENDENT";
    LABELLINE(3)(2|30) := "NAVAL POSTGRADUATE SCHOOL";
    LABELLINE(4)(2|30) := "(ATTN:  CODE 382/T.A.GROUP)";
    LABELLINE(5)(2|30) := "MONTEREY, CALIFORNIA 93940";
    COMMENT THIS WRITES THE SMALL "FROM LABEL";
    FOR X := 1 UNTIL 8 DO PUTFROMLABEL(LABELLINE(X)(0|34));
    COMMENT THIS WRITES THE LARGE "TO LABEL";
    FOR X := 9, 1, 2, 9, 3, 9, 4, 9, 5, 9, 9, 9 DO
       PUTTOLABEL(LABELLINE(X)(0|40));
    END;

PROCEDURE BLOCK3;
    BEGIN
    INTEGER CTR;
    STRING (85) DUMMYNAME;
    LOGICAL TWOWORDNAME;
    TWOWORDNAME := FALSE;
    BUFFER := " ";
    IF ¬(((VAR011 >= 3) AND (VAR011 <= 6)) OR (VAR011 = 1)) THEN
       BUFFER(10|30) := " " ELSE CASE VAR011 OF
       BEGIN
       BUFFER(10|30) := "-LJ/MR.";
       ;
       BUFFER(10|30) := "-LJ/LIEUTENANT";
       BUFFER(10|30) := "-LJ/LIEUTENANT /COMMANDER";
       BUFFER(10|30) := "-LJ/COMMANDER";
       BUFFER(10|30) := "-LJ/CAPTAIN"
       END;
    PUTTPSCARD(BUFFER);
    DUMMYNAME := VAR010;
    FOR X := 0 UNTIL 38 DO IF (DUMMYNAME(X|6) = "/JR.  ")
       OR (DUMMYNAME(X|6) = "/I/I  ")
       OR (DUMMYNAME(X|6) = "/I/I/I")
       THEN DUMMYNAME(X|6) := " ";
    FOR X := 0 UNTIL 40 DO IF DUMMYNAME(X|1) = "," THEN
       DUMMYNAME(X|1) := " ";
    CTR := 40;
```

```
    WHILE DUMMYNAME(CTR|1) = " " DO CTR := CTR -1;
    DUMMYNAME(CTR + 1|1) := ":";
    FOR X := 0 UNTIL 40 DO IF DUMMYNAME(X|1) = "#" THEN BEGIN
       CTR := X; TWOWORDNAME := TRUE; END;
    IF ¬TWOWORDNAME THEN WHILE (DUMMYNAME[CTR|1) ¬= " ") AND
       (CTR > 0) DO CTR := CTR -1;
    IF CTR = 0 THEN WRITE (VAR008, "CTR = 0");
    BUFFER := " ";
    BUFFER(10|40) := DUMMYNAME(CTR + 1|40);
    PUTTPSCARD(BUFFER);
    END;

PROCEDURE BLOCK4;
    BEGIN
    PROCEDURE PRINTITEM (STRING (65) VALUE BUF);
       BEGIN
       PUTTPSCARD(BUFFER);
       BUFFER := " ";
       BUFFER(10|65) := BUF;
       END;
    BUFFER := " ";
    BUFFER(10|30) := IF FLAGCASE THEN "PROVIDE: " ELSE
       "MAKE CORRECTIONS AS NECESSARY.";
    IF FLAGBSC THEN PRINTITEM ("BILLET SEQUENCE CODE,");
    IF FLAGRANK THEN PRINTITEM ("RANK,");
    IF FLAGAGE THEN PRINTITEM ("AGE,");
    IF FLAGDESIG THEN PRINTITEM ("DESIGNATOR,");
    IF FLAGBILLETSSCODE THEN PRINTITEM ("BILLET SUBSPECIALTY CODE,");
    IF FLAGRESPSSCODE THEN PRINTITEM ("YOUR SUBSPECIALTY CODE,");
    IF FLAGEDUC THEN PRINTITEM ("HIGHEST EDUCATIONAL LEVEL,");
    IF FLAGFIRSTCODE THEN PRINTITEM
       ("ANSWER TO QUESTION REGARDING FIRST INTELLIGENCE TOUR STATUS,");
    IF FLAGYEARS THEN PRINTITEM
       ("YEARS PREVIOUS INTELLIGENCE EXPERIENCE,");
    IF FLAGMONTHS THEN PRINTITEM
       ("NUMBER OF MONTHS SERVED IN PRESENT BILLET,");
    FOR X := 10 UNTIL 79 DO IF BUFFER(X|1) = "," THEN
       BUFFER(X|1) := ".";
    PUTTPSCARD(BUFFER);
    IF ¬((VAR019(0|1) = "3") OR (VAR019(1|1) = "3") OR
       (VAR019(2|1) = "3") OR (VAR019(3|1) = "3") OR
       (VAR019(4|1) = "3")) THEN BEGIN
       BUFFER := " ";
       BUFFER(10|40) := "/WE WOULD ALSO LIKE FOR YOU TO INDICATE";
       PUTTPSCARD(BUFFER);
       BUFFER := " ";
       BUFFER(10|30) := "IF YOU ARE A /N/I/S///D/I/S";
       PUTTPSCARD(BUFFER);
```

```
        BUFFER := " ";
        BUFFER(10|36) := "GRADUATE: /Y/E/S____, /N/O____?";
        PUTTPSCARD(BUFFER);
        END;
    END;

PROCEDURE BLOCK5;
    BEGIN
    PROCEDURE PUTLINE (STRING (60) VALUE BUF);
        BEGIN
        BUFFER := " ";
        BUFFER(10|60) := BUF;
        PUTTPSCARD(BUFFER);
        END;
    PROCEDURE ENDLINE; PUTLINE ("-DB");
    PUTLINE ("-DBCOMMAND NAME/:");
    PUTLINE (VAR001);
    ENDLINE;
    PUTLINE ("BILLET SEQUENCE CODE-LC:");
    PUTLINE (IF (VAR002 = 0) OR (VAR002 = 99999) THEN "?"
        ELSE VAR002A);
    PUTLINE ("-UC");
    ENDLINE;
    PUTLINE ("BILLET TITLE/:");
    PUTLINE (VAR003);
    ENDLINE;
    PUTLINE ("RESPONDENT/'S RANK/:");
    PUTLINE (IF VAR011 = 1 THEN "CIVILIAN" ELSE IF VAR011 = 3 THEN
        "LIEUTENANT" ELSE IF VAR011 = 4 THEN "LIEUTENANT COMMANDER"
        ELSE IF VAR011 = 5 THEN "COMMANDER" ELSE "CAPTAIN");
    ENDLINE;
    PUTLINE ("RESPONDENT/'S AGE-LC:");
    PUTLINE (IF VAR012 = 99 THEN "?" ELSE VAR012A);
    PUTLINE ("-UC");
    ENDLINE;
    IF VAR011 ¬= 1 THEN BEGIN
        PUTLINE ("RESPONDENT/'S DESIGNATOR HISTORY-LC:");
        PUTLINE (IF (VAR013 = 0) OR (VAR013 = 9999) THEN "?" ELSE
            VAR013A);
        IF ¬((VAR014 = 0000) OR (VAR014 = 9999)) THEN
            PUTLINE (VAR014A);
        IF ¬((VAR015 = 0000) OR (VAR015 = 9999)) THEN
            PUTLINE (VAR015A);
        PUTLINE ("-UC");
        ENDLINE;
        PUTLINE ("BILLET SUBSPECIALTY CODE/:");
        PUTLINE (IF (VAR016 = "00000") THEN "NONE" ELSE IF
            (VAR016 = "99999") THEN "/?" ELSE VAR016);
```

```
      ENDLINE;
      PUTLINE ("RESPONDENT/'S SUBSPECIALTY CODE/:");
      PUTLINE (IF (VAR017 = "00000") THEN "NONE" ELSE IF
         (VAR017 = "99999") THEN "/?" ELSE VAR017);
      ENDLINE;
      END;
   PUTLINE ("EDUCATIONAL LEVEL/:");
   PUTLINE (IF VAR018 = 0 THEN "LESS THAN BACHELORS DEGREE" ELSE
      IF VAR018 = 1 THEN "BACHELORS LEVEL" ELSE IF VAR018 = 2 THEN
      "POSTGRADUATE STUDIES" ELSE IF VAR018 = 4 THEN
      "MASTERS LEVEL DEGREE" ELSE IF VAR018 = 5 THEN
      "DOCTORAL LEVEL" ELSE "NONE LISTED");
   ENDLINE;
   PUTLINE ("TRAINING USED IN THIS BILLET/:");
   IF VAR019 = " " THEN PUTLINE ("NONE LISTED") ELSE
      FOR X := 0 UNTIL 4 DO IF VAR019(X|1) =/= " " THEN
      BEGIN
      ENDLINE;
      IF ((CONVERT(VAR019(X|1)) < 1) OR
         (CONVERT(VAR019(X|1)) > 9)) THEN WRITE (VAR008, "VAR019")
         ELSE BEGIN
      CASE (CONVERT(VAR019(X|1))) OF BEGIN

         BEGIN
         PUTLINE ("-AT026PREV INTELL EXPERIENCE");
         ENDLINE;
         END;

         BEGIN
         PUTLINE ("-AT026PREV MILITARY EXPERIENCE");
         ENDLINE;
         END;

         BEGIN
         PUTLINE ("-AT026DEFENSE INTELL SCHOOL");
         ENDLINE;
         END;

         BEGIN
         PUTLINE ("-AT026PHOTO INTERPRETATION");
         ENDLINE;
         END;

         BEGIN
         PUTLINE ("-AT026INTELL COURSES E/.G/. FITC/S//LOWRY");
         ENDLINE;
         END;
```

```
            BEGIN
            PUTLINE ("-AT026FOREIGN LANGUAGE");
            ENDLINE;
            END;

            BEGIN
            PUTLINE ("-AT026ADP EXPERIENCE");
            ENDLINE;
            END;

            BEGIN
            PUTLINE ("-AT026WAR AND STAFF COLLEGE/, ETC/.");
            ENDLINE;
            END;

            BEGIN
            PUTLINE ("-AT026OTHER TRAINING E/.G/. FAAWTC/S//DESSCHOOL");
            ENDLINE;
            END;
            END;
         END
         END;
      ENDLINE;
      PUTLINE ("FIRST INTELLIGENCE BILLET/?");
      PUTLINE (IF VAR020 = 0 THEN "NO" ELSE "YES");
      ENDLINE;
      PUTLINE ("YEARS PREVIOUS INTELLIGENCE EXPERIENCE-LC:");
      PUTLINE (IF VAR021 = 99 THEN "?" ELSE VAR021A);
      PUTLINE ("-UC");
      ENDLINE;
      PUTLINE ("MONTHS IN THIS BILLET-LC:");
      PUTLINE (IF VAR022 = 99 THEN "?" ELSE VAR022A);
      ENDLINE;
      END;

PROCEDURE BLOCK23;
   BEGIN
   PROCEDURE ADDOUTPUTLINE (STRING (32) VALUE BUFX; STRING (3) VALUE
      BUFY);
      BEGIN
      BUFFER := " ";
      BUFFER(10|3) := "-UC";
      BUFFER(13|32) := BUFX;
      BUFFER(46|9) := "-LC-AT069";
      BUFFER(55|3) := IF BUFY = "999" THEN " " ELSE BUFY;
      BUFFER(58|4) := IF BUFY = "999" THEN "-DB" ELSE "%-DB";
      PUTTPSCARD(BUFFER);
      END;
```

```
    IF ADDOUTPUT1 THEN
       BEGIN
       BUFFER := " ";
       BUFFER[10|41] := "-LJ**-UCINTELLIGENCE OUTPUTS ADDED-LC:-DB";
       PUTTPSCARD(BUFFER);
       ADDOUTPUTLINE (VAR061, VAR063A);
       END;
    IF ADDOUTPUT2 THEN ADDOUTPUTLINE (VAR064, VAR066A);
    IF ADDOUTPUT3 THEN ADDOUTPUTLINE (VAR069, VAR071A);
    IF ADDOUTPUT4 THEN ADDOUTPUTLINE (VAR072, VAR074A);
    IF ADDOUTPUT5 THEN ADDOUTPUTLINE (VAR077, VAR079A);
    END;

PROCEDURE BLOCK24; IF ¬ADDOUTPUT1 THEN WHILE BUFFER(7|3) ¬= "28*" DO
    GETTPSCARD(BUFFER);

PROCEDURE BLOCK25;
    BEGIN
    BUFFER := " ";
    BUFFER[10|6] := "OUTPUT";
    IF ADDOUTPUT1 AND ADDOUTPUT2 THEN BUFFER[16|1] := "S";
    PUTTPSCARD(BUFFER);
    END;

PROCEDURE BLOCK26;
    BEGIN
    BUFFER := " ";
    BUFFER[10|4] := IF ADDOUTPUT1 AND ADDOUTPUT2 THEN "THEM" ELSE "IT";
    PUTTPSCARD(BUFFER);
    END;

PROCEDURE BLOCK27;
    BEGIN
    BUFFER := " ";
    BUFFER[10|3] := "-UC";
    BUFFER[13|32] := VAR061;
    BUFFER[47|3] := "-LC";
    PUTTPSCARD(BUFFER);
    END;

PROCEDURE BLOCK28;
    BEGIN
    PROCEDURE CHGTOPERIOD; FOR X := 0 UNTIL 79 DO IF BUFFER(X|1) = ","
       THEN BUFFER(X|1) := ".";
    STRING (65) PROCEDURE BREAKDOWN (STRING (1) VALUE OUTPUTCODE);
       BEGIN
       IF OUTPUTCODE = "A" THEN
          "ADMINISTRATION OF INTELLIGENCE OFFICE,"
```

```
        ELSE IF OUTPUTCODE = "B" THEN
           "RESOURCE//ORGANIZATIONAL MANAGEMENT,"
        ELSE IF OUTPUTCODE = "C" THEN
           "BUDGETING AND FISCAL PLANNING,"
        ELSE IF OUTPUTCODE = "D" THEN
           "DECISIONS AND RECOMMENDATIONS,"
        ELSE IF OUTPUTCODE = "E" THEN
           "BRIEFS AND DEBRIEFS,"
        ELSE IF OUTPUTCODE = "F" THEN
           "LIAISON,"
        ELSE IF OUTPUTCODE = "G" THEN
           "CHARTS AND AUDIO---VISUAL AIDS,"
        ELSE IF OUTPUTCODE = "H" THEN
           "COUNTERINTELLIGENCE STUDIES,"
        ELSE IF OUTPUTCODE = "I" THEN
           "DATA ANALYSIS,"
        ELSE IF OUTPUTCODE = "J" THEN
           "ESTIMATES,"
        ELSE IF OUTPUTCODE = "K" THEN
           "INTELLIGENCE ANNEXES TO /O/P/O/R/DS,"
        ELSE IF OUTPUTCODE = "L" THEN
           "INTELLIGENCE COLLECTION PLANS,"
        ELSE IF OUTPUTCODE = "M" THEN
           "INTELLIGENCE COLLECTION TASKING,"
        ELSE IF OUTPUTCODE = "N" THEN
           "/INTELLIGENCE /INFORMATION /REPORTS,"
        ELSE IF OUTPUTCODE = "O" THEN
           "INTERFACE WITH /A/D/P//TELECOMMUNICATIONS,"
        ELSE IF OUTPUTCODE = "P" THEN
           "ORDERS OF BATTLE,"
        ELSE IF OUTPUTCODE = "Q" THEN
           "PHYSICAL SECURITY,"
        ELSE IF OUTPUTCODE = "R" THEN
           "TACTICAL PLOTS,"
        ELSE IF OUTPUTCODE = "S" THEN
           "NON---INTELLIGENCE RELATED OUTPUTS,"
        ELSE IF OUTPUTCODE = "T" THEN
           "COUNSELING//TRAINING,"
        ELSE
"ONE OR MORE OF THE REVISED OUTPUTS LISTED IN -UCTABLE III-LC."
    END;

    BUFFER := " ";
    BUFFER(10|65) := BREAKDOWN(VAR062(0|1));
IF VAR062(1|2) = " " THEN
 BEGIN
 CHGTOPERIOD;
 PUTTPSCARD(BUFFER)
```

```
    END
    ELSE
    BEGIN
      IF VAR062[1|1] = " " THEN BEGIN
         CHGTOPERIOD;
         PUTTPSCARD(BUFFER);
         END
         ELSE
         BEGIN
         PUTTPSCARD(BUFFER);
         BUFFER := " ";
         BUFFER[15|65] := BREAKDOWN(VAR062[1|1]);
         END;
      IF (VAR062[2|1] = " ") AND (VAR062[1|1] ¬= " ") THEN
         BEGIN
         CHGTOPERIOD;
         BUFFER[10|3] := "AND";
         PUTTPSCARD(BUFFER);
         END
         ELSE
         BEGIN
         PUTTPSCARD(BUFFER);
         BUFFER := " ";
         BUFFER[10|3] := "AND";
         BUFFER[14|65] := BREAKDOWN(VAR062[2|1]);
         CHGTOPERIOD;
         PUTTPSCARD(BUFFER);
         END
      END;
END;

PROCEDURE GETNEXTADDRESS;
   BEGIN
   ADDRESSCARDNO := 0;
   WHILE ADDRESSCARDNO ¬= 1 DO
      BEGIN
      GETADDRESSCARD(BUFFER);
      ADDRESSUIC := CONVERT(BUFFER[0|5]);
      ADDRESSCARDNO := CONVERT(BUFFER[5|1]);
      END;
   END;

PROCEDURE PRINTTABLEVALUE (STRING (3) VALUE BUF);
   BEGIN
   BUFFER := " ";
   BUFFER[10|3] := BUF;
   BUFFER[13|1] := "%";
   IF BUF = "000" THEN BUFFER[10|3] := "---";
```

```
      IF BUF = "999" THEN BUFFER(10|4) := "NONE";
      PUTTPSCARD(BUFFER);
      END;

   PROCEDURE SETFLAGS;
      BEGIN
      FLAGCASE := FLAGBSC := FLAGRANK := FLAGAGE := FLAGDESIG :=
         FLAGBILLETSSCODE := FLAGRESPSSCODE := FLAGEDUC :=
         FLAGFIRSTCODE := FLAGYEARS := FLAGMONTHS := ADDOUTPUT1 :=
         ADDOUTPUT2 := ADDOUTPUT3 := ADDOUTPUT4 := ADDOUTPUT5 := FALSE;
      IF VAR002 = 99999 THEN FLAGCASE := FLAGBSC := TRUE;
      IF VAR011 = 9 THEN FLAGCASE := FLAGRANK := TRUE;
      IF VAR012 = 99 THEN FLAGCASE := FLAGAGE := TRUE;
      IF (VAR011 ¬= 1) AND (VAR013 = 9999) THEN FLAGCASE :=
         FLAGDESIG := TRUE;
      IF (VAR011 ¬= 1) AND (VAR016 = "99999") THEN FLAGCASE :=
         FLAGBILLETSSCODE := TRUE;
      IF (VAR011 ¬= 1) AND (VAR017 = "99999") THEN FLAGCASE :=
         FLAGRESPSSCODE := TRUE;
      IF VAR018 = 9 THEN FLAGCASE := FLAGEDUC := TRUE;
      IF VAR020 = 9 THEN FLAGCASE := FLAGFIRSTCODE := TRUE;
      IF VAR021 = 99 THEN FLAGCASE := FLAGYEARS := TRUE;
      IF VAR022 = 99 THEN FLAGCASE := FLAGMONTHS := TRUE;
      IF VAR061 ¬= " " THEN ADDOUTPUT1 := TRUE;
      IF VAR064 ¬= " " THEN ADDOUTPUT2 := TRUE;
      IF VAR069 ¬= " " THEN ADDOUTPUT3 := TRUE;
      IF VAR072 ¬= " " THEN ADDOUTPUT4 := TRUE;
      IF VAR077 ¬= " " THEN ADDOUTPUT5 := TRUE;
      END;

   PROCEDURE TPS;
      BEGIN
      GETTPSCARD(BUFFER);
      TPSNO := CONVERT(BUFFER(6|3));
      WHILE (BUFFER(9|1) ¬= "*") AND (TPSNO ¬= 999) DO
         BEGIN
         BUFFER(0|10) := " ";
         PUTTPSCARD(BUFFER);
         GETTPSCARD(BUFFER);
         TPSNO := CONVERT(BUFFER(6|3));
         END;
      END;

   PROCEDURE RESTARTTPS;
      BEGIN
      TPSNO := 0;
      REWINDTPSFILE;
      BUFFER := " ";
```

```
    BUFFER(10|3) := "-**";
    PUTTPSCARD(BUFFER);
    END;

PROCEDURE RESTARTADDRESS;
    BEGIN
    ADDRESSUIC := ADDRESSCARDNO := 0;
    REWINDADDRESSFILE;
    END;

PROCEDURE XADDRESSLABELS;
    BEGIN
    FOR X := 1 UNTIL 25 DO
    BEGIN
    FOR Y := 1 UNTIL 10 DO PUTTOLABEL
       ("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX");
    FOR Y := 1, 2 DO PUTTOLABEL (" ");
    END;
    FOR X := 1 UNTIL 25 DO
    BEGIN
    FOR Y := 1 UNTIL 7 DO PUTFROMLABEL
       ("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX");
    PUTFROMLABEL (" ");
    END;
    END;

PROCEDURE CLOSEFILES;
    BEGIN
    XADDRESSLABELS;
    BUFFER := " ";
    BUFFER(10|3) := "-PG";
    PUTTPSCARD(BUFFER);
    BUFFER := " ";
    FOR X := 1 UNTIL 90 DO PUTTPSCARD(BUFFER);
    END;

WRITE ("START RUN");
RESTARTADDRESS;
REWINDQCARDFILE;
GETQCARD(BUFFER);
QCASES := CONVERT(BUFFER(0|3));
XADDRESSLABELS;
FOR I := 1 UNTIL QCASES DO
    BEGIN
    GETCASE;
    WRITE (VAR008A);
    RESTARTTPS;
    SETFLAGS;
```

```
    WHILE TPSNO ¬= 999 DO
       BEGIN
       TPS;
       IF TPSNO ¬= 999 THEN CASE TPSNO OF
          BEGIN
          BLOCK1;
          BLOCK2;
          BLOCK3;
          BLOCK4;
          BLOCK5;
          PRINTTABLEVALUE (VAR025A);
          PRINTTABLEVALUE (VAR027A);
          PRINTTABLEVALUE (VAR029A);
          PRINTTABLEVALUE (VAR031A);
          PRINTTABLEVALUE (VAR033A);
          PRINTTABLEVALUE (VAR035A);
          PRINTTABLEVALUE (VAR037A);
          PRINTTABLEVALUE (VAR039A);
          PRINTTABLEVALUE (VAR041A);
          PRINTTABLEVALUE (VAR043A);
          PRINTTABLEVALUE (VAR045A);
          PRINTTABLEVALUE (VAR047A);
          PRINTTABLEVALUE (VAR049A);
          PRINTTABLEVALUE (VAR051A);
          PRINTTABLEVALUE (VAR053A);
          PRINTTABLEVALUE (VAR055A);
          PRINTTABLEVALUE (VAR057A);
          BLOCK23;
          BLOCK24;
          BLOCK25;
          BLOCK26;
          BLOCK27;
          BLOCK28;
          END;
       END;
    END;
WRITE ("END RUN");
CLOSEFILES;
END.
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//            DD DISP=SHR,DSN=SYS1.FORTLIB
//LINK.SYSPRINT DD DUMMY
//LINK.SYSIN  DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.FOALG3,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),SPACE=(CYL,(5,1)),
//            DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),LABEL=(,,,IN),
```

```
//      DSNAME=S2600.QCARDS
//GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),LABEL=(,,,IN),
//      DSNAME=S2600.DELITPS
//GO.FT13F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),LABEL=(,,,IN),
//      DSNAME=S2600.MAILER
//GO.FT14F001 DD UNIT=2321,VOL=SER=CEL003,DISP=(NEW,KEEP),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=2000),DSNAME=S2600.TPSOUT,
//      SPACE=(CYL,(250,10)),LABEL=RETPD=30
//GO.FT15F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(NEW,KEEP),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),DSNAME=S2600.BIGLBLS,
//      SPACE=(CYL,(5,2)),LABEL=RETPD=30
//GO.FT16F001 DD UNIT=2311,VOL=SER=SYS003,DISP=(NEW,KEEP),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),DSNAME=S2600.LTLLBLS,
//      SPACE=(CYL,(5,2)),LABEL=RETPD=30
//GO.SYSIN DD *
```

APPENDIX F

SAMPLE H

PRINT OF 6 NOVEMBER 1974 DELPHI "A2" SOURCE DECK FOR COMPUTER-PRODUCED QUESTIONNAIRE

```
   -RS -TR- -CCO -CN -UC -BF -DB -IS024
   NAVAL POSTGRADUATE SCHOOL -DB
   MONTEREY/, CALIFORNIA /9/3/9/4/0 -NF -CC1 -DB
   -SP002
   -LC-LJ-DB-AT060/N/C4(382)///T/A/G-AT071
1*
   -DB
   -AT0601211
   -DB
   -AT0606 /N/J/V 1974-SP004
   -CC1
2*
   -SP001
   -LJ/DEAR
3*
   -PP-EM/THIS IS THE SECOND PHASE OF THE NAVAL INTELLIGENCE
   COMMUNITY TASK ANALYSIS BEING CONDUCTED AT THE /NAVAL
   /POSTGRADUATE /SCHOOL.  /WE APPRECIATE YOUR RESPONSE TO
   OUR FIRST QUESTIONNAIRE.  /WE WOULD NOW LIKE TO
   PROVIDE YOU WITH  A LITTLE FEEDBACK. -PP
   /THE INSTRUMENT WE ARE USING THIS TIME IS CONSTRUCTED
   AS A PART OF A "/DELPHI" TECHNIQUE.  /IN LIGHT OF THE OVERALL
   COMMUNITY'S
   ANSWERS
   TO OUR FIRST QUESTIONNAIRE, WE WILL ASK YOU TO RE---EVALUATE YOUR
   ORIGINAL RESPONSES (WHICH HAVE BEEN LISTED
   FOR YOU IN -UCTABLE II-LC).
   /WHILE NOT ATTEMPTING TO MOVE THE VARIOUS TIME ALLOCATIONS
   TOWARD A CONSENSUS, THE /DELPHI WILL HELP US ARRIVE
   AT A CONSENSUS OF THE ENTIRE COMMUNITY'S OUTPUTS AND
   SHOULD HELP VALIDATE OUR DATA BASE.
   -PP
   /THE NEXT PHASE WILL APPLY OUR /WASHINGTON, /NORFOLK, AND /PEARL
   INTERVIEW
   DATA TO THE QUESTION OF EDUCATIONAL REQUIREMENTS IN
   THE COMMUNITY.
   /FIRST, HOWEVER,
   WE NEED YOUR HELP IN THIS PHASE.   /INCIDENTALLY, IF YOU
   ARE NO LONGER INT  THE BILLET ORIGINALLY CANVASSED,
   PLEASE RESPOND AS THOUGH YOU WERE, AND INCLUDE THE NAME OF YOUR
   RELIEF.
   -PP
   /THE FOLLOWING IS SET UP TO TAKE NO MORE THAN TEN MINUTES
   OF YOUR TIME.  /WE WOULD APPRECIATE YOUR CONTINUED
   PARTICIPATION.  -PP
   -UCTABLE I -LCIS OUR CODED VERSION OF THE BACKGROUND INFORMATION
   YOU PROVIDED IN RESPONSE TO  OUR INITIAL QUESTIONNAIRE.
   /PLEASE CHECK IT FOR ACCURACY AND
```

```
4*
 /PLEASE MAKE ALL CORRECTIONS AND ADDITIONS DIRECTLY ON
 THIS LETTER.
 -SP003
 -DB
 -SP001
 -CN-UCTABLE I-LC-DB
 -SP001
 -LJ-UC
5*
 -EM-LC
 -DB
 -SP001
 -DB
 -DB
 -SP003
 -PP
 /IN THE FIRST COLUMN BELOW IS OUR ORIGINAL LIST OF INTELLIGENCE
 OUTPUTS.  /AS YOU REMEMBER, WE ASKED YOU TO INDICATE THE
 PERCENTAGE OF TIME WHICH YOU DEVOTE TO EACH OF THESE OUTPUTS.
 /THE FOLLOWING DATA WERE COMPILED FROM THE INFORMATION
 PROVIDED BY THE 321 RESPONDENTS TO THE FIRST QUESTIONNAIRE.
 /IN THE SECOND COLUMN OF -UCTABLE  II  -LCIS THE PERCENTAGE
 OF RESPONDENTS WHO INDICATED THAT THE OUTPUT WAS APPLICABLE TO
 THEIR JOBS.  /THE THIRD COLUMN CONTAINS THE MEAN PERCENTAGE OF
 TIME ENGAGED IN THAT OUTPUT BY THOSE CONSIDERING THE OUTPUT
 APPLICABLE.  /THE FOURTH COLUMN LISTS YOUR RESPONSES TO THE FIRST
 QUESTIONNAIRE.
 -SP003
 -FM60--DB
 -SP001
 -CN-UC-BETABLE II-NF-DB-SP002
 -LJ-UC-NF-AT045PERCENT-AT056MEAN FOR-AT066-DB
 -AT045THOSE-AT056BILLETS-DB
 -AT045REPORTING-AT055INVOLVED-AT067YOUR-DB
 -TBORIGINAL LIST OF OUTPUTS
 -AT045OUTPUT-AT056WITH-AT067RESPONSE-DB
 -AT056OUTPUT-DB-SP001
 -SP001
 -CC2
 -LC-LJ-NF¬1.
 /ADMINISTRATION OF -DB
 -TB¬
 -TB/INTELLIGENCE /OFFICE
                          -AT047852-AT059222 -AT068
```

```
6*
  -DB¬2.
  /BRIEFS AND /DEBRIEFS
                                  -AT04778%-AT059¬9%-AT068
7*
  -DB¬3.
  /BUDGETS AND /BUDGETING
                                   -AT04754%-AT059¬6%-AT068
8*
  -DB¬4.
  /CHARTS///AUDIO///VISUAL /AIDS
                                        -AT04750%-AT059¬5%-AT068
9*
  -DB¬5.
  /COUNTERINTELLIGENCE -DB
  -TB¬
  -TB/STUDIES
                                         -AT04716%-AT059¬5%-AT068
10*
  -DB¬6.
       /DATA /ANALYSIS-AT04759%-AT05915% -AT068
11*
  -DB¬7.
  /DECISIONS AND -DB
  -TB¬
  -TB/RECOMMENDATIONS
                                                  -AT04786%-AT05917% -AT068
12*
  -DB¬8.
       /ESTIMATES-AT04745%-AT059¬9%-AT068
13*
  -DB¬9.
  /INTELLIGENCE /ANNEXES-DB
  -TB¬
  -TBTO /O/P/O/R/DS
  -AT04726%-AT059¬5%-AT068
14*
  /INTELLIGENCE -DB
  -DB10.
  -TB¬
  -TB/COLLECTION /PLANS
                                                  -AT04735%-AT059¬6%-AT068
15*
  -DB11.
  /INTELLIGENCE /COLLECTION -DB
  -TB¬
  -TB/TASKING
                                                    -AT04743%-AT059¬7%-AT068
```

```
16*
   -DB12.
   /INTELLIGENCE /INFORMATION -DB
   -TB¬
   -TB/REPORTS-AT04737%-AT059¬7%-AT068
17*
   -DB13.
   /INTELLIGENCE /STUDIES
                                  -AT04753%-AT05910%-AT068
18*
   -DB14.
   /INTERFACE WITH /A/D/P// -DB
   -TB¬
   -TB/TELECOMMUNICATIONS
                                    -AT04753%-AT05912% -AT068
19*
   -DB15.
   /ORDERS OF /BATTLE
                              -AT04730%-AT059¬5%-AT068
20*
   -DB16.
   /PHYSICAL /SECURITY
                               -AT04754%-AT059¬4%-AT068
21*
   -DB17.
   /TACTICAL /PLOTS
                             -AT04723%-AT059¬5%-AT068
22*
   -DB
23*
   -SP001
   -FW60-
   -FW60--DB
   -SP002
   -EM
   -CC1
   -PP /IN LIGHT OF THE RESPONSES TO OUR FIRST QUESTIONNAIRE AND
   THE INTERVIEWS, WE HAVE MODIFIED THE OUTPUT LIST SIGNIFICANTLY.
   /USING THIS REVISED LIST OF OUTPUTS (BELOW),
   PLEASE PROVIDE REVISED PERCENTAGES IN THE SPACES PROVIDED.
   -PP
24*
   /WE ASK YOU RECONSIDER THE WRITE---IN
25*
   WHICH YOU
   ADDED TO OUR ORIGINAL LIST.  /WE REQUEST THAT YOU BREAK
26*
   DOWN
```

```
   INTO BASIC ELEMENTS.  /FOR EXAMPLE, YOUR OUTPUT
27*
   MIGHT BE BROKEN DOWN TO
28*
   -PP
   /CAREFUL CONSIDERATION HAS BEEN GIVEN TO THE NEED FOR CLASSIFYING YOUR
    RESPONSE AND THE AGGREGATE DATA WHICH WILL RESULT.  /THE QUESTIONS
   INVOLVED IN THIS QUESTIONNAIRE ARE DEEMED SUFFICIENTLY GENERAL
   IN NATURE TO PRECLUDE THE NECESSITY FOR CLASSIFYING YOUR
   ANSWERS.  /IF YOU JUDGE OTHERWISE, THEN FOLLOW STANDARD
   PROCEDURES IN CLASSIFYING AND RETURNING THE QUESTIONNAIRE.
   /PLEASE RETURN THIS QUESTIONNAIRE IN THE ATTACHED
   SELF---ADDRESSED ENVELOPE.
   -PG
   -RS
   -MDY -AT020 -AT064 -MEY
   -MDX -AT020 -AT068 7 -MEX
   -TR¬
   -CC1
   ------------------------------------------------------------
   -SP002
   -UC-CNTABLE III -DB-LC-EM
   -SP004
   @Y¬¬¬ ¬¬¬¬¬¬¬¬¬¬¬¬ ¬¬/REVISED
   -DB
   @Y¬¬¬ -UN/NEW LIST /OF /OUTPUTS-NU -UN/PERCENTAGES-NU -DB
   -CC2
   -SP002
   @X¬1. /ADMINISTRATION OF /INTELLIGENCE /OFFICE
   -DB
   @X¬2. /RESOURCE///ORGANIZATIONAL /MANAGEMENT
   -DB
   @X¬3. /BUDGETING AND /FISCAL /PLANNING
   -DB
   @X¬4. /DECISIONS AND /RECOMMENDATIONS
   -DB
   @X¬5. /BRIEFS AND /DEBRIEFS
   -DB
   @X¬6. /LIAISON ¬¬¬¬¬¬
   -DB
   @X¬7. /CHARTS AND /AUDIO---/VISUAL /AIDS
   ---
```

-DB
@X¬8. /COUNTERINTELLIGENCE /STUDIES
-DB
@X¬9. /DATA /ANALYSIS
-DB
@X10. /ESTIMATES ¬¬¬¬¬
-DB
@X11. /INTELLIGENCE /ANNEXES TO /O/P/O/R/DS
-DB
@X12. /INTELLIGENCE /COLLECTION /PLANS
-DB
@X13. /INTELLIGENCE /COLLECTION /TASKING
-DB
@X14. /INTELLIGENCE /INFORA MATION /REPORTS
-DB
@X15. /INTERFACE WITH /A/D/P///TELECOMMUNICATIONS
-DB
@X16. /ORDERS OF /BATTLE
-DB
@X17. /PHYSICAL /SECURITY
-DB
@X18. /TACTICAL /PLOTS
-DB
@X19. /NON---/INTELLIGENCE /RELATED /OUTPUTS
-DB
@Y20. /COUNSELING///TRAINING _____%
-DB
@Y¬¬¬ ¬¬¬¬¬¬¬¬¬ ¬¬¬¬100%
-DB
-CC1

-SP001
-DB
-SP006
-AT050/R. /W. /C/H/A/P/I/N, /JR. -DB

```
    -AT050/L/C/D/R.--------/U/S/N-DB
    -AT050/BY DIRECTION -DB
    -AT050/COORDINATOR, /TASK-DB
    -AT050/ANALYSIS /GROUP (382)-DB
999*
```

APPENDIX F

SAMPLE I

ALGOL AND FORTRAN PROGRAMS FOR
MAILING LABEL PREPARATION, WITH EXAMPLE LABELS

```
//HUBER4 JOB (2600,0578,Y$42),'HUBER,E.W.',TIME=6
//  EXEC ALGWCLG,PARM.GO='SIZE=150K',REGION.GO=250K
//ALGOL.SYSIN DD *
%ALGOL SIZE=220K
BEGIN

STRING (25) VAR001;
STRING (3) VAR002;
STRING (5) VAR0022, VAR044, VAR016, VAR017, VAR019;
STRING (40) VAR010;
STRING (1) VAR005, VAR007A, VAR009A, VAR311A, VAR018A, VAR020A,
    VAR024A;
STRING (2) VAR012A, VAR021A, VAR022A;
STRING (3) VAR008A, VAR023A;
STRING (4) VAR013A, VAR014A, VAR015A;
STRING (80) BUFFER;
INTEGER VAR023, VAR024, VAR005, VAR007, VAR008, VAR009,
    VAR011, VAR012, VAR013, VAR014, VAR015, VAR018, VAR020, VAR021,
    VAR022, VAR023, VAR024, QCASES, ADDRESSUIC, ADDRESSCARDNO;

PROCEDURE REWINDQCARDFILE; FORTRAN "RWND11";

PROCEDURE REWINDADDRESSFILE; FORTRAN "RWND12";

PROCEDURE GETQCARD (STRING (80) RESULT BUF); FORTRAN "READ11";

PROCEDURE GETADDRESSCARD (STRING (80) RESULT BUF); FORTRAN "READ12";

PROCEDURE PUTTOLABEL (STRING (80) VALUE BUF); FORTRAN "RITE14";

PROCEDURE PUTFROMLABEL (STRING (80) VALUE BUF); FORTRAN "RITE15";

PROCEDURE GETCASE;
    FOR I := 1 UNTIL 7 DO BEGIN
        GETQCARD (BUFFER);
        CASE I OF BEGIN
        IMAGE1;
        IMAGE2;
        ;
        ;
        ;
    END;
END;

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
  BEGIN INTEGER INTVALUE, POSITION;
```

```
    INTVALUE := POSITION := 0;
    WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
       POSITION := POSITION + 1;
    FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
       INTVALUE := 10 * INTVALUE + (DECODE(T(U|1)) - 240);
    XIT: POSITION := 0;
    INTVALUE END;

PROCEDURE IMAGE1;
    BEGIN
    VAR001 := BUFFER(0|25);
    VAR002 := CONVERT (BUFFER(25|5));
    VAR002A := BUFFER(25|5);
    VAR003 := BUFFER(30|37);
    VAR004 := CONVERT (BUFFER(67|5));
    VAR004A := BUFFER(67|5);
    VAR005 := CONVERT (BUFFER(72|1));
    VAR005A := BUFFER(72|1);
    VAR006 := BUFFER (73|2);
    VAR007 := CONVERT (BUFFER(75|1));
    VAR007A := BUFFER(75|1);
    VAR008 := CONVERT (BUFFER(76|3));
    VAR008A := BUFFER(76|3);
    VAR009 := CONVERT (BUFFER(79|1));
    VAR009A := BUFFER(79|1);
    END;

PROCEDURE IMAGE2;
    BEGIN
    VAR010 := BUFFER(0|40);
    VAR011 := CONVERT (BUFFER(40|1));
    VAR011A := BUFFER(40|1);
    VAR012 := CONVERT (BUFFER(41|2));
    VAR012A := BUFFER(41|2);
    VAR013 := CONVERT (BUFFER(43|4));
    VAR013A := BUFFER(43|4);
    VAR014 := CONVERT (BUFFER(47|4));
    VAR014A := BUFFER(47|4);
    VAR015 := CONVERT (BUFFER(51|4));
    VAR015A := BUFFER(51|4);
    VAR016 := BUFFER(55|5);
    VAR017 := BUFFER(60|5);
    VAR018 := CONVERT (BUFFER(65|1));
    VAR018A := BUFFER(55|1);
    VAR019 := BUFFER(66|5);
    VAR020 := CONVERT (BUFFER(71|1));
    VAR020A := BUFFER(71|1);
    VAR021 := CONVERT (BUFFER(72|2));
```

```
    VAR021A := BUFFER(72|2);
    VAR022 := CONVERT (BUFFER(74|2));
    VAR022A := BUFFER(74|2);
    VAR023 := CONVERT (BUFFER(76|3));
    VAR023A := BUFFER(76|3);
    VAR024 := CONVERT (BUFFER(79|1));
    VAR024A := BUFFER(79|1);
    END;

PROCEDURE MAKELABELS;
    BEGIN
    PROCEDURE COMPRESS (STRING (80) VALUE RESULT BUF);
       IF BUF ¬= " " THEN BEGIN
       FOR X := 0 UNTIL 77 DO IF BUF(X|1) = "/" THEN
       FOR Y := X UNTIL 78 DO BUF(Y|1) := BUF(Y+1|1);
       WHILE (BUF(0|1) = " ") AND (BUF ¬= " ") DO
          BUF(0|70) := BUF(1|70);
       END;
    STRING (80) ARRAY LABELLINE (1::12);
    STRING (85) DUMMYNAME;
    INTEGER CTR;
    LOGICAL TWOWORDNAME;

    FOR X := 1 UNTIL 12 DO LABELLINE(X) := " ";
    IF VAR004 <= ADDRESSUIC THEN RESTARTADDRESS;
    WHILE VAR004 > ADDRESSUIC DO GETNEXTADDRESS;
    IF VAR004 = ADDRESSUIC THEN WHILE VAR004 = ADDRESSUIC DO
       BEGIN
       BUFFER(0|10) := " ";
       WHILE (BUFFER(10|1) = " ") AND (BUFFER(10|60) ¬= " ") DO
          FOR X := 10 UNTIL 70 DO BUFFER(X|1) := BUFFER(X+1|1);
       IF (ADDRESSCARDNO >= 1) AND (ADDRESSCARDNO <= 5) THEN
          LABELLINE(ADDRESSCARDNO) := BUFFER(10|60);
       FOR X := 1 UNTIL 3 DO FOR Y := 70 STEP -1 UNTIL 10 DO
          BUFFER(Y+1|1) := BUFFER(Y|1);
       GETADDRESSCARD(BUFFER);
       ADDRESSUIC := CONVERT(BUFFER(0|5));
       ADDRESSCARDNO := CONVERT(BUFFER(5|1));
       END;
    FOR X := 5 STEP -1 UNTIL 1 DO LABELLINE(X+1) := LABELLINE(X);
    LABELLINE(1) := " ";
    LABELLINE(1)(25|3) := VAR008A;
    FOR X := 2 UNTIL 6 DO COMPRESS(LABELLINE(X));
    COMMENT THIS WRITES THE SMALL "FROM LABEL";
    FOR X := 1 UNTIL 8 DO PUTFROMLABEL(LABELLINE(X)(0|34));
    LABELLINE(9) := "ATTN:";
    LABELLINE(10) := VAR010;
    COMPRESS(LABELLINE(10));
```

```
FOR X := 0 UNTIL 50 DO IF LABELLINE(10)(X|1) = "#" THEN
   LABELLINE(10)(X|1) := " ";
COMPRESS(LABELLINE(10));
FOR X := 45 STEP -1 UNTIL 0 DO
   LABELLINE(10)(X+5|1) := LABELLINE(10)(X|1);
LABELLINE(10)(0|5) := " ";
LABELLINE(10)(0|4) := IF ¬((VAR011 >= 1) AND (VAR011 <= 6))
   THEN " " ELSE CASE VAR011 OF
   (" MR.", " ", "   LT", "LCDR", " CDR", "CAPT");
COMPRESS(LABELLINE(10));
FOR X := 1 UNTIL 12 DO FOR Y := 60 STEP -1 UNTIL 0 DO
   LABELLINE(X)(Y+2|1) := LABELLINE(X)(Y|1);
FOR X := 1 UNTIL 12 DO LABELLINE(X)(0|2) := " ";
COMMENT THIS WRITES THE LARGE "TO LABEL";
FOR X := 1 UNTIL 12 DO PUTTOLABEL(LABELLINE(X)(0|40));
LABELLINE(9) := LABELLINE(10) := " ";
TWOWORDNAME := FALSE;
DUMMYNAME := VAR010;
FOR X := 0 UNTIL 38 DO IF (DUMMYNAME(X|6) = "/JR.  ")
   OR (DUMMYNAME(X|6) = "/I/I   ")
   OR (DUMMYNAME(X|6) = "/I/I/I")
   THEN DUMMYNAME(X|6) := " ";
FOR X := 0 UNTIL 40 DO IF DUMMYNAME(X|1) = "," THEN
   DUMMYNAME(X|1) := " ";
CTR := 40;
WHILE DUMMYNAME(CTR|1) = " " DO CTR := CTR -1;
DUMMYNAME(CTR + 1|1) := ":";
FOR X := 0 UNTIL 40 DO IF DUMMYNAME(X|1) = "#" THEN BEGIN
   CTR := X; TWOWORDNAME := TRUE; END;
IF ¬TWOWORDNAME THEN WHILE (DUMMYNAME(CTR|1) ¬= " ") AND
   (CTR > 0) DO CTR := CTR -1;
IF CTR = 0 THEN WRITE (VAR009, "CTR = 0");
LABELLINE(10)(0|40) := DUMMYNAME(CTR+1|40);
COMPRESS(LABELLINE(10));
FOR X := 70 STEP -1 UNTIL 0 DO LABELLINE(10)(X+5|1) :=
   LABELLINE(10)(X|1);
LABELLINE(10)(0|5) := " ";
LABELLINE(10)(0|4) := IF ¬((VAR011 >= 1) AND (VAR011 <= 6))
   THEN " " ELSE CASE VAR011 OF
   (" MR.", " ", "   LT", "LCDR", " CDR", "CAPT");
COMPRESS(LABELLINE(10));
FOR X := 70 STEP -1 UNTIL 0 DO LABELLINE(10)(X+5|1) :=
   LABELLINE(10)(X|1);
LABELLINE(10)(0|5) := "DEAR ";
FOR X := 70 STEP -1 UNTIL 0 DO
   LABELLINE(10)(X+2|1) := LABELLINE(10)(X|1);
LABELLINE(10)(0|2) := " ";
COMMENT THIS WRITES THE INSIDE LABEL "DEAR LCDR SEA";
```

```
    FOR X := 1 UNTIL 12 DO PUTTOLABEL(LABELLINE(X)(0|40));
    FOR X := 1 UNTIL 12 DO LABELLINE(X) := " ";
    LABELLINE(1)(25|3) := VAR008A;
    LABELLINE(2)(2|30) := "SUPERINTENDENT";
    LABELLINE(3)(2|30) := "NAVAL POSTGRADUATE SCHOOL";
    LABELLINE(4)(2|30) := "(ATTN:  CODE 382/T.A. GROUP)";
    LABELLINE(5)(2|30) := "MONTEREY, CALIFORNIA 93940";
    COMMENT THIS WRITES THE SMALL "FROM LABEL";
    FOR X := 1 UNTIL 8 DO PUTFROMLABEL(LABELLINE(X)(0|34));
    COMMENT THIS WRITES THE LARGE "TO LABEL";
    FOR X := 9, 1, 2, 9, 3, 9, 4, 9, 5, 9, 9, 9 DO
       PUTTOLABEL(LABELLINE(X)(0|40));
    END;

PROCEDURE RESTARTADDRESS;
    BEGIN
    ADDRESSUIC := ADDRESSCARDNO := 0;
    REWINDADDRESSFILE;
    END;

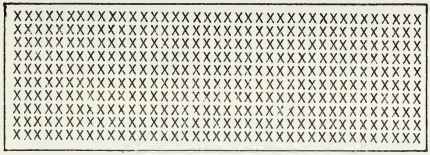
PROCEDURE GETNEXTADDRESS;
    BEGIN
    ADDRESSCARDNO := 0;
    WHILE ADDRESSCARDNO ¬= 1 DO
       BEGIN
       GETADDRESSCARD(BUFFER);
       ADDRESSUIC := CONVERT(BUFFER(0|5));
       ADDRESSCARDNO := CONVERT(BUFFER(5|1));
       END;
    END;

PROCEDURE XADDRESSLABELS;
    BEGIN
    FOR X := 1 UNTIL 25 DO
    BEGIN
    FOR Y := 1 UNTIL 10 DO PUTTOLABEL
       ("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX");
    FOR Y := 1, 2 DO PUTTOLABEL (" ");
    END;
    FOR X := 1 UNTIL 25 DO
    BEGIN
    FOR Y := 1 UNTIL 7 DO PUTFROMLABEL
       ("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX");
    PUTFROMLABEL (" ");
    END;
    END;

WRITE ("START RUN");
```

```
RESTARTADDRESS;
REWINDQCARDFILE;
GETQCARD(BUFFER);
QCASES := CONVERT(BUFFER(0|3));
XADDRESSLABELS;
FOR I := 1 UNTIL QCASES DO
   BEGIN
   GETCASE;
   WRITE (VAR008A);
   MAKELABELS;
   END;
WRITE ("END RUN");
XADDRESSLABELS;
END.
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//            DD DISP=SHR,DSN=SYS1.FORTLIB
//LINK.SYSPRINT DD DUMMY
//LINK.SYSIN  DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.FOALG3,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),SPACE=(CYL,(5,1)),
//            DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QCARDS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,1)),
//  DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.MAILER,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(10,2)),
//  DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT14F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.BIGLBLS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,2)),
//  DISP=(NEW,KEEP),LABEL=RETPD=30
//GO.FT15F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.LTLLBLS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,2)),
//  DISP=(NEW,KEEP),LABEL=RETPD=30
//GO.FT07F001 DD DUMMY
//GO.SYSIN  DD *
```

```
//HUBTOLBL JOB (2600,0678,YS42),'HUBER,E.W.',TIME=1
// EXEC FORTCLG
//FORT.SYSIN DD *
      DIMENSION ARRAY (20)
   10 FORMAT (20A4)
   20 FORMAT (1X,20A4)
   90 READ (15,10,END=99) ARRAY
      WRITE (6,20) ARRAY
      GO TO 90
   99 STOP
      END
//GO.FT06F001 DD SYSOUT=F,SPACE=(CYL,(5,1))
//GO.FT15F001 DD UNIT=2311,VOL=SER=SYS003,DISP=SHR,LABEL=(,,,IN),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),DSNAME=S2600.BIGLBLS
//GO.SYSIN DD *
```



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DIRECTOR
NAVAL OCEAN SURVEILLANCE
INFORMATION CENTER
4301 SUITLAND ROAD
WASHINGTON, D. C. 20390

ATTN:
LCDR SINCLAIR S. MARTEL

200

DIRECTOR
NAVAL OCEAN SURVEILLANCE
INFORMATION CENTER
4301 SUITLAND ROAD
WASHINGTON, D. C. 20390

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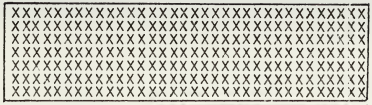
```
//HUBFMLBL JOB (2600,0678,YS42),'HUBER,E.W.',TIME=1
// EXEC FOPTCLG
//FORT.SYSIN DD *
      DIMENSION ARRAY (20)
   10 FORMAT (20A4)
   20 FORMAT (1X,20A4)
   90 READ (16,10,END=99) ARRAY
      WRITE (6,20) ARRAY
      GO TO 90
   99 STOP
      END
//GO.FT06F001 DD SYSOUT=F,SPACE=(CYL,(5,1))
//GO.FT16F001 DD UNIT=2311,VOL=SER=SYS003,DISP=SHR,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),DSNAME=S2600.LTLLBLS,
//      LABEL=(,,,IN)
//GO.SYSIN DD *
```



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DIRECTOR
NAVAL OCEAN SURVEILLANCE
INFORMATION CENTER
4301 SUITLAND ROAD
WASHINGTON, D. C. 20390

200
SUPERINTENDENT
NAVAL POSTGRADUATE SCHOOL
(ATTN: CODE 382/T.A. GROUP)
MONTEREY, CALIFORNIA 93940

201
DIRECTOR
NAVAL OCEAN SURVEILLANCE
INFORMATION CENTER
4301 SUITLAND ROAD
WASHINGTON, D. C. 20390

201
SUPERINTENDENT
NAVAL POSTGRADUATE SCHOOL
(ATTN: CODE 382/T.A. GROUP)
MONTEREY, CALIFORNIA 93940

202
DIRECTOR
NAVAL OCEAN SURVEILLANCE
INFORMATION CENTER
4301 SUITLAND ROAD
WASHINGTON, D. C. 20390

APPENDIX F

SAMPLE J

ALGOL SOURCE PROGRAM TO MERGE
QCARDS AND ICARDS FILES

```
//HUBER004 JOB (2600,0678,$42),'HUBER,E.W.',TIME=50,TYPRUN=HOLD
//*EXEC ALGOLG,PARM.GO='SIZE=150K',REGION.GO=230K
//*ALGOL.SYSIN DD *
%ALGOL
BEGIN

STRING (1) ARRAY EDUMATRIX (1:*6,1:*2);
STRING (1) ICODER;
STRING (3) VAR008A, VAR023A, VAR059A, VAR067A, VAR075A, VAR081A,
    VAR085A;
STRING (80) BUFFER;
LOGICAL IEXISTS, BADEDUCARD, EDUCARDUSED;
INTEGER QCASES, ICASENO;

PROCEDURE REWINDQCARDFILE; FORTRAN "RWNDQ11";

PROCEDURE REWINDICARDFILE; FORTRAN "RWNDI12";

PROCEDURE GETQCARD (STRING (80) RESULT BUF); FORTRAN "READ11";

PROCEDURE GETICARD (STRING (80) RESULT BUF); FORTRAN "READ12";

PROCEDURE PUTQICARD (STRING (80) VALUE BUF); FORTRAN "RITE14";

PROCEDURE GETPUTCASE;
    BEGIN
    FOR T := 1 UNTIL 7 DO BEGIN
        GETQCARD (BUFFER);
        PUTQICARD (BUFFER);
        CASE T OF BEGIN
            VAR008A := BUFFER(76|3);
            VAR023A := BUFFER(76|3);
            VAR059A := BUFFER(76|3);
            VAR067A := BUFFER(76|3);
            VAR075A := BUFFER(76|3);
            VAR081A := BUFFER(76|3); END;
        END;
    IF ¬((VAR008A = VAR023A) AND (VAR008A = VAR059A) AND
        (VAR008A = VAR067A) AND (VAR008A = VAR075A) AND
        (VAR008A = VAR081A) AND (VAR008A = VAR085A)) THEN WRITE
        ("CASE # MISMATCH, CASE NUMBER ", VAR008A);
    END;

PROCEDURE BUILDMATRIX;
    BEGIN
    PROCEDURE BUILDROW (INTEGER VALUE ROW);
        BEGIN
```

```
    EDUMATRIX(ROW,1) := BUFFER(7|1);
    EDUMATRIX(ROW,2) := BUFFER(8|1);
    FOR X := 7, 8 DO IF (CONVERT(BUFFER(X|1)) < 1) OR
       (CONVERT(BUFFER(X|1)) > 4) THEN BADEDUCARD := TRUE;
    EDUCARDUSED := TRUE;
    END;

FOR X := 1 UNTIL 46 DO FOR Y := 1, 2 DO EDUMATRIX(X,Y) := "9";
IEXISTS := BADEDUCARD := EDUCARDUSED := FALSE;
REWINDICARDFILE;
GETICARD(BUFFER);
ICASENO := CONVERT(BUFFER(0|3));
WHILE ICASENO <> 999 DO
    BEGIN
    IF ICASENO = CONVERT(VAR008A) THEN
       BEGIN
       IEXISTS := TRUE;
       ICODER := BUFFER(3|1);
       IF (CONVERT(BUFFER(4|3)) = 011) THEN BUILDROW(1);
       IF (CONVERT(BUFFER(4|3)) = 012) THEN BUILDROW(2);
       IF (CONVERT(BUFFER(4|3)) = 013) THEN BUILDROW(3);
       IF (CONVERT(BUFFER(4|3)) = 014) THEN BUILDROW(4);
       IF (CONVERT(BUFFER(4|3)) = 021) THEN BUILDROW(5);
       IF (CONVERT(BUFFER(4|3)) = 031) THEN BUILDROW(6);
       IF (CONVERT(BUFFER(4|3)) = 032) THEN BUILDROW(7);
       IF (CONVERT(BUFFER(4|3)) = 033) THEN BUILDROW(8);
       IF (CONVERT(BUFFER(4|3)) = 034) THEN BUILDROW(9);
       IF (CONVERT(BUFFER(4|3)) = 035) THEN BUILDROW(10);
       IF (CONVERT(BUFFER(4|3)) = 036) THEN BUILDROW(11);
       IF (CONVERT(BUFFER(4|3)) = 041) THEN BUILDROW(12);
       IF (CONVERT(BUFFER(4|3)) = 051) THEN BUILDROW(13);
       IF (CONVERT(BUFFER(4|3)) = 061) THEN BUILDROW(14);
       IF (CONVERT(BUFFER(4|3)) = 062) THEN BUILDROW(15);
       IF (CONVERT(BUFFER(4|3)) = 063) THEN BUILDROW(16);
       IF (CONVERT(BUFFER(4|3)) = 064) THEN BUILDROW(17);
       IF (CONVERT(BUFFER(4|3)) = 065) THEN BUILDROW(18);
       IF (CONVERT(BUFFER(4|3)) = 066) THEN BUILDROW(19);
       IF (CONVERT(BUFFER(4|3)) = 067) THEN BUILDROW(20);
       IF (CONVERT(BUFFER(4|3)) = 071) THEN BUILDROW(21);
       IF (CONVERT(BUFFER(4|3)) = 072) THEN BUILDROW(22);
       IF (CONVERT(BUFFER(4|3)) = 073) THEN BUILDROW(23);
       IF (CONVERT(BUFFER(4|3)) = 081) THEN BUILDROW(24);
       IF (CONVERT(BUFFER(4|3)) = 082) THEN BUILDROW(25);
       IF (CONVERT(BUFFER(4|3)) = 083) THEN BUILDROW(26);
       IF (CONVERT(BUFFER(4|3)) = 084) THEN BUILDROW(27);
       IF (CONVERT(BUFFER(4|3)) = 085) THEN BUILDROW(28);
       IF (CONVERT(BUFFER(4|3)) = 086) THEN BUILDROW(29);
       IF (CONVERT(BUFFER(4|3)) = 091) THEN BUILDROW(30);
```

```
            IF (CONVERT(BUFFER(4|3)) = 092) THEN BUILDROW(31);
            IF (CONVERT(BUFFER(4|3)) = 093) THEN BUILDROW(32);
            IF (CONVERT(BUFFER(4|3)) = 094) THEN BUILDROW(33);
            IF (CONVERT(BUFFER(4|3)) = 101) THEN BUILDROW(34);
            IF (CONVERT(BUFFER(4|3)) = 102) THEN BUILDROW(35);
            IF (CONVERT(BUFFER(4|3)) = 103) THEN BUILDROW(36);
            IF (CONVERT(BUFFER(4|3)) = 104) THEN BUILDROW(37);
            IF (CONVERT(BUFFER(4|3)) = 111) THEN BUILDROW(38);
            IF (CONVERT(BUFFER(4|3)) = 112) THEN BUILDROW(39);
            IF (CONVERT(BUFFER(4|3)) = 113) THEN BUILDROW(40);
            IF (CONVERT(BUFFER(4|3)) = 121) THEN BUILDROW(41);
            IF (CONVERT(BUFFER(4|3)) = 122) THEN BUILDROW(42);
            IF (CONVERT(BUFFER(4|3)) = 123) THEN BUILDROW(43);
            IF (CONVERT(BUFFER(4|3)) = 124) THEN BUILDROW(44);
            IF (CONVERT(BUFFER(4|3)) = 125) THEN BUILDROW(45);
            IF (CONVERT(BUFFER(4|3)) = 126) THEN BUILDROW(46);
            IF ¬EDUCARDUSED THEN WRITEON
               (" INVALID EDU CODE; ", BUFFER(4|3));
            IF BADEDUCARD THEN WRITEON
               (" INVALID EDU LEVEL, ", BUFFER(7|2));
            BADEDUCARD := EDUCARDUSED := FALSE;
            END;
         GETICARD(BUFFER);
         ICASENO := CONVERT(BUFFER(0|3));
         END;
      END;

   PROCEDURE PUTMATRIX;
      BEGIN
      IF IEXISTS THEN FOR X := 1 UNTIL 46 DO FOR Y := 1, 2 DO
         IF ((EDUMATRIX(X,Y) = "9") OR (EDUMATRIX(X,Y) = " "))
         THEN EDUMATRIX(X,Y) := "1";
      FOR X := 1, 2 DO
         BEGIN
         BUFFER := " ";
         FOR Y := 1 UNTIL 46 DO BUFFER(Y-1|1) := EDUMATRIX(Y,X);
         BUFFER(73|1) := IF IEXISTS THEN ICODER ELSE "9";
         BUFFER(74|2) := IF X = 1 THEN "01" ELSE "02";
         BUFFER(76|3) := VAR008A;
         BUFFER(79|1) := "8";
         PUTQICARD(BUFFER);
         END;
      END;

   INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
      BEGIN INTEGER INTVALUE, POSITION;
      INTVALUE := POSITION := 0;
      WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
```

```
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(J|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;

WRITE ("START RUN");
REWINDQCARDFILE;
REWINDICARDFILE;
GETQCARD(BUFFER);
QCASES := CONVERT(BUFFER(0|3));
FOR X := 1 UNTIL QCASES DO
   BEGIN
   GETPUTCASE;
   WRITE (VAR008A);
   BUILDMATRIX;
   PUTMATRIX;
   END;
WRITE ("END RUN");
END.
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//            DD DISP=SHR,DSN=SYS1.FORTLIB
//LINK.SYSPRINT DD DUMMY
//LINK.SYSIN  DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.FOALG3,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),SPACE=(CYL,(5,1)),
//            DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QCARDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(5,1)),
//   DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.ICARDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(10,2)),
//   DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT14F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QICARDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),SPACE=(CYL,(25,2)),
//   DISP=(NEW,KEEP),LABEL=RETPD=30
//GO.FT07F001 DD DUMMY
//GO.SYSIN  DD *
```

```
//HUBER3 JOB (2600,0678,YS42),'HUBER,E.W.',TIME=1
// EXEC SPSS,REGION=250K
//FT04F001 DD DSNAME=S2600.INTELLB,UNIT=2311,VOL=SER=SYS003,
// DISP=(NEW,KEEP),DCB=BLKSIZE=3624,LABEL=EXPDT=75100,
// SPACE=(CYL,(3,2),RLSE)
//FT08F001    DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QICARDS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),DISP=SHR,LABEL=(,,,IN)
//SYSIN DD *
FILE NAME       INTELLB  QUESTIONNAIRE & INTERVIEW MERGED FILE
RUN NAME        YS-42 T.A. GROUP, QUESTIONNAIRE & INTERVIEW FILE
VARIABLE LIST   VAR001 TO VAR185
# OF CASES      325
INPUT MEDIUM    DISK
INPUT FORMAT    FIXED (A25,F5.0,A37,F5.0,F1.0,A2,F1.0,F3.0,F1.0/
                A40,F1.0,F2.0,3F4.0,2A5,F1.0,A5,F1.0,2F2.0,F3.0,F1.0/
                17(F3.0,F1.0),8X,F3.0,F1.0/
                A32,A3,F3.0,A32,A3,2F3.0,F1.0/
                A32,A3,F3.0,A32,A3,2F3.0,F1.0/
                A32,A3,2F3.0,35X,F3.0,F1.0/
                A75,F1.0,F3.0,F1.0/
                46F1.0,27X,F1.0,F2.0,F3.0,F1.0/
                46F1.0,27X,F1.0,F2.0,F3.0,F1.0)
MISSING VALUES  VAR005,VAR007,VAR009,VAR011,VAR018,VAR020,VAR024,VAR026,
                VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,VAR042,
                VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,VAR058,
                VAR060,VAR068,VAR076,VAR082,VAR084,VAR086 TO VAR132,
                VAR137 TO VAR182 (9)/
                VAR012,VAR021,VAR022 (99)/
                VAR008,VAR023,VAR025,VAR027,VAR029,VAR031,VAR033,VAR035,
                VAR037,VAR039,VAR041,VAR043,VAR045,VAR047,VAR049,VAR051,
                VAR053,VAR055,VAR057,VAR059,VAR063,VAR066,VAR067,VAR071,
                VAR074,VAR075,VAR079,VAR080,VAR081,VAR085 (999)/
                VAR062,VAR065,VAR070,VAR073,VAR078 ('   ')/
                VAR013 TO VAR015 (9999)/
                VAR002,VAR004,VAR019 (99999)/
                VAR061,VAR064,VAR069,VAR072,VAR077
                ('                    ')
VAR LABELS      VAR001,COMMAND NAME/
                VAR002,BILLET SEQUENCE CODE/
                VAR003,BILLET TITLE/
                VAR004,UNIT IDENTIFICATION CODE/
                VAR005,CONUS-OVERSEAS/
                VAR006,COUNTRY-STATE CODE/
                VAR007,CODER CODE/
                VAR008,CARD #1 SEQUENCE/
                VAR009,CARD ONE NUMBER/
                VAR010,RESPONDENTS NAME/
                VAR011,RESPONDENTS RANK/
```

VAR012,RESPONDENTS AGE/
VAR013,RESPONDENTS DESIGNATOR/
VAR014,RESPONDENTS PREVIOUS DESIGNATOR/
VAR015,RESPONDENTS FIRST DESIGNATOR/
VAR016,BILLET SUBSPECIALTY CODE/
VAR017,RESPONDENTS SUBSPECIALTY CODE/
VAR018,EDUCATIONAL LEVEL/
VAR019,TRAINING USED IN THIS BILLET/
VAR020,FIRST INTELL BILLET, NO-YES/
VAR021,YEARS PREVIOUS INTELL EXPERIENCE/
VAR022,MONTHS IN THIS BILLET/
VAR023,CARD #2 SEQUENCE/
VAR024,CARD TWO NUMBER/
VAR025,% INTELL OFFICE ADMIN/
VAR026,VALID INTELL OFFICE ADMIN/
VAR027,% BRIEFS AND DEBRIEFS/
VAR028,VALID BRIEFS AND DEBRIEFS/
VAR029,% BUDGETS AND BUDGETING/
VAR030,VALID BUDGETS AND BUDGETING/
VAR031,% CHARTS AND AUDIO-VISUAL AIDS/
VAR032,VALID CHARTS AND AUDIO-VISUAL AIDS/
VAR033,% COUNTERINTELLIGENCE STUDIES/
VAR034,VALID COUNTERINTELLIGENCE STUDIES/
VAR035,% DATA ANALYSIS/
VAR036,VALID DATA ANALYSIS/
VAR037,% DECISIONS AND RECOMMENDATIONS/
VAR038,VALID DECISIONS AND RECOMMENDATIONS/
VAR039,% ESTIMATES/
VAR040,VALID ESTIMATES/
VAR041,% INTELL ANNEXES TO OPORDS/
VAR042,VALID INTELL ANNEXES TO OPORDS/
VAR043,% INTELL COLLECTION PLANS/
VAR044,VALID INTELL COLLECTION PLANS/
VAR045,% INTELL COLLECTION TASKING/
VAR046,VALID INTELL COLLECTION TASKING/
VAR047,% INTELLIGENCE REPORTS/
VAR048,VALID INTELLIGENCE REPORTS/
VAR049,% INTELLIGENCE STUDIES/
VAR050,VALID INTELLIGENCE STUDIES/
VAR051,% INTERFACE ADP-TELECOMMS/
VAR052,VALID INTERFACE ADP-TELECOMMS/
VAR053,% ORDERS OF BATTLE/
VAR054,VALID ORDERS OF BATTLE/
VAR055,% PHYSICAL SECURITY/
VAR056,VALID PHYSICAL SECURITY/
VAR057,% TACTICAL PLOTS/
VAR058,VALID TACTICAL PLOTS/
VAR059,CARD #3 SEQUENCE/

```
VAR060,CARD THREE NUMBER/
VAR061,FIRST INTELL OUTPUT ADDED/
VAR062,CODED FIRST ADDITIONAL OUTPUT/
VAR063,% FIRST INTELL OUTPUT ADDED/
VAR064,SECOND INTELL OUTPUT ADDED/
VAR065,CODED SECOND ADDITIONAL OUTPUT/
VAR066,% SECOND INTELL OUTPUT ADDED/
VAR067,CARD #4 SEQUENCE/
VAR068,CARD FOUR NUMBER/
VAR069,THIRD INTELL OUTPUT ADDED/
VAR070,CODED THIRD ADDITIONAL OUTPUT/
VAR071,% THIRD INTELL OUTPUT ADDED/
VAR072,FOURTH INTELL OUTPUT ADDED/
VAR073,CODED FOURTH ADDITIONAL OUTPUT/
VAR074,% FOURTH INTELL OUTPUT ADDED/
VAR075,CARD #5 SEQUENCE/
VAR076,CARD FIVE NUMBER/
VAR077,FIFTH INTELL OUTPUT ADDED/
VAR078,CODED FIFTH ADDITIONAL OUTPUT/
VAR079,% FIFTH INTELL OUTPUT ADDED/
VAR080,% NON-INTELLIGENCE OUTPUTS/
VAR081,CARD #6 SEQUENCE/
VAR082,CARD SIX NUMBER/
VAR083,RESPONDENTS COMMENTS/
VAR084,ARE COMMENTS CONTINUED?/
VAR085,CARD #7 SEQUENCE/
VAR086,CARD SEVEN NUMBER/
VAR087,U-COLLEGE ALGEBRA/
VAR088,U-BEGIN CALCULUS/
VAR089,U-PROBS & STATS/
VAR090,U-ADV. CALCULUS/
VAR091,U-FOREIGN LANGUAGE/
VAR092,U-USSR/
VAR093,U-CHINA/
VAR094,U-MID EAST/
VAR095,U-EUROPE/
VAR096,U-LATIN AMERICA/
VAR097,U-AFRICA/
VAR098,U-OPS ANALYSIS/
VAR099,U-INT'L RELATIONS/
VAR100,U-UW ACOUSTICS/
VAR101,U-SONAR SYSTEMS/
VAR102,U-COMM SYSTEMS/
VAR103,U-RADAR SYSTEMS/
VAR104,U-OPTICS/
VAR105,U-LASERS/
VAR106,U-COLLECTION SYSTEMS/
VAR107,U-NAT'L & NAV BUDGET PROC/
```

```
VAR108,U-THREAT & NET ASSESSMENT/
VAR109,U-NATIONAL SEC & INTELL ORGN/
VAR110,U-SOVIET NAVAL/
VAR111,U-SOVIET AIR FORCE/
VAR112,U-SOVIET GROUND/
VAR113,U-SOVIET PVO/
VAR114,U-SOVIET STRAT ROCKET TROOPS/
VAR115,U-SOVIET-MER-FISH-OCEANO/
VAR116,U-COLLECTION SYSTEMS/
VAR117,U-NAVAL STRAT-GENL PURPOSE/
VAR118,U-OTHER STRAT-GENL PURPOSE/
VAR119,U-ALLIED CAPABILITY/
VAR120,U-SYS DESIGN-ANAL-MGMT/
VAR121,U-HARDWARE OPER/
VAR122,U-SOFTWARE-PROGRAMMING/
VAR123,U-BASIC INTERFACE OPS/
VAR124,U-BRIEFING/
VAR125,U-WRITING/
VAR126,U-ORGANIZ OF THOUGHT/
VAR127,U-COLLECTION SYSTEMS/
VAR128,U-PERT/
VAR129,U-MGMT BY OBJECTIVES/
VAR130,U-PERSONNEL MGMT/
VAR131,U-FINANCIAL MGMT/
VAR132,U-LABOR RELATIONS/
VAR133,INTERVIEW CODER NUMBER/
VAR134,CARD #8 SUBCARD NUMBER/
VAR135,CARD #80I SEQUENCE/
VAR136,CARD #80I NUMBER/
VAR137,N-COLLEGE ALGEBRA/
VAR138,N-BEGIN CALCULUS/
VAR139,N-PROBS & STATS/
VAR140,N-ADV. CALCULUS/
VAR141,N-FOREIGN LANGUAGE/
VAR142,N-USSR/
VAR143,N-CHINA/
VAR144,N-MID EAST/
VAR145,N-EUROPE/
VAR146,N-LATIN AMERICA/
VAR147,N-AFRICA/
VAR148,N-OPS ANALYSIS/
VAR149,N-INT'L RELATIONS/
VAR150,N-UW ACOUSTICS/
VAR151,N-SONAR SYSTEMS/
VAR152,N-COMM SYSTEMS/
VAR153,N-RADAR SYSTEMS/
VAR154,N-OPTICS/
VAR155,N-LASERS/
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VAR156,N-COLLECTION SYSTEMS/
VAR157,N-NAT'L & NAV BUDGET PROC/
VAR158,N-THREAT & NET ASSESSMENT/
VAR159,N-NATIONAL SEC & INTELL ORGN/
VAR160,N-SOVIET NAVAL/
VAR161,N-SOVIET AIR FORCE/
VAR162,N-SOVIET GROUND/
VAR163,N-SOVIET PVO/
VAR164,N-SOVIET STRAT ROCKET TROOPS/
VAR165,N-SOVIET-MER-FISH-OCEANO/
VAR166,N-COLLECTION SYSTEMS/
VAR167,N-NAVAL STRAT-GENL PURPOSE/
VAR168,N-OTHER STRAT-GENL PURPOSE/
VAR169,N-ALLIED CAPABILITY/
VAR170,N-SYS DESIGN-ANAL-MGMT/
VAR171,N-HARDWARE OPER/
VAR172,N-SOFTWARE-PROGRAMMING/
VAR173,N-BASIC INTERFACE OPS/
VAR174,N-BRIEFING/
VAR175,N-WRITING/
VAR176,N-ORGANIZ OF THOUGHT/
VAR177,N-COLLECTION SYSTEMS/
VAR178,N-PERT/
VAR179,N-MGMT BY OBJECTIVES/
VAR180,N-PERSONNEL MGMT/
VAR181,N-FINANCIAL MGMT/
VAR182,N-LABOR RELATIONS/
VAR183,INTERVIEW CODER NUMBER/
VAR184,CARD #8 SUBCARD NUMBER/
VAR185,CARD #802 SEQUENCE/
VAR186,CARD #802 NUMBER
COMMENT     THE FOLLOWING UNIT IDENTIFICATION CODES LISTED FOR
            VAR004 ARE VALID UIC'S UNLESS THE NUMBER BEGINS WITH 999XX.
COMMENT     SEQUENCE NUMBERS, VARS 008, 023, 059, 067, 075, 081, AND 085,
            ARE KEYED IN THE FOLLOWING MANNER:
            LCDR MOUNT HAS 001 THROUGH 199
            LT FOSTER HAS 200 THROUGH 399
            LT BICKELL HAS 400 THROUGH 599
            LT HUBER HAS 600 THROUGH 799
            LT WATSON HAS 800 THROUGH 999
VALUE LABELS VAR004 (02360) USS SARATOGA
                    (03362) USS INDEPENDENCE
                    (03363) USS KITTY HAWK
                    (03321) USS HANCOCK
                    (03334) USS ORISKANY
                    (03341) USS MIDWAY
                    (03342) USS F D ROOSEVELT
                    (03343) USS CORAL SEA
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(03359) USS FORRESTAL
(03361) USS RANGER
(03364) USS CONSTELLATION
(03366) USS AMERICA
(03367) USS KENNEDY
(03365) USS ENTERPRISE
(05840) USS BLUE RIDGE
(20001) USS MOUNT WHITNEY
(62856) NAF LAJES
(60200) NAS CECIL FIELD
(00213) NAS KEY WEST
(57007) COMIDEASTFOR
(00309) NB GUANTANAMO
(62769) NB SUBIC
(64591) JSTPS
(99901) COMCARGRU ONE
(99902) COMCARGRU TWO
(99903) COMCARGRU THREE
(99904) COMCARGRU FOUR
(99905) COMCARGRU FIVE
(99906) COMCARGRU SIX
(99907) COMCARGRU SEVEN
(63126) MISSILE CENTER PT MUGU
(30883) NOSIC
(66967) FOSIC NORFOLK
(66842) FOSIC LONDON
(66600) FOSIF ROTA
(66970) FOSIF WESTPAC
(63013) NUWEPNTRAGRUPAC
(57012) COMNAVAIRLANT
(57025) COMNAVAIRPAC
(09550) COMFAIRMED
(09117) COMFAIRKEF
(99908) COMPATWING ONE
(63981) COMPATWINGSLANT
(05917) COMPATWINGSPAC
(57015) COMPHIBLANT
(57019) COMPHIBPAC
(55297) COMPHIBRON ONE
(55335) COMPHIBRON THREE
(55269) COMPHIBRON FIVE
(55281) COMPHIBRON SEVEN
(00510) COMNAVSOUTH-COM15
(99909) USSOUTHCOM
(99910) CINCEASTLANT
(00061) CINCUSNAVEUR
(57006) COMNAVFORJAPAN
(62894) COMNAVFORKOREA

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(31585) CINC UNC-USF KOREA
(57014) COMICEDEFOR
(63842) COMANTDC
(62822) COMUSTDC
(62982) USMAC JUSMAG THAI
(08961) COMSECONDFLT
(57087) COMTHIRDFLT
(57042) COMSIXTHFLT
(57024) COMSEVENTHFLT
(99911) CINCAL
(00038) CINCPAC
(00070) CINCPACFLT
(00066) CINCLANT
(00060) CINCLANTFLT
(63420) NIPSSA
(63415) DIA
(99912) FICEUR
(63186) FICPAC
(99913) FICEURLANT
(68166) NISC
(65134) PACOMELINTCEN
(65792) LANTCOMELINTCEN
(66400) NIPSTRAFAC
(99914) CTF 168
(99915) CTG 168.1
(99916) CTG 168.2
(99917) CTG 168.3
(99918) FITCLANT
(99919) FITCPAC
(00015) COMNAVINTCOM
(62930) NFOIO
(63285) NISHQ
(63051) NISO CHASN
(65493) NISO EUROPE
(99920) NISO JAPAN
(99921) NISO MARIANAS
(63053) NISO NEW ORLEANS
(63054) NISO NEW YORK
(63055) NISO NORFOLK
(63064) NISO HAWAII
(63057) NISO SAN DIEGO
(63058) NISO SAN FRANCISCO
(99922) COMCRUDESGRU EIGHT
(99923) COMCRUDESGRU TWELVE
(31695) NAVCOSSACT
(99924) FASOTRAGRULANT BRUNS
(96013) CNA
(99925) COMFLTCORGRU TWO
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          (62919) COMCARIBSEAFRON
          (62928) COMEASTSEAFRON
          (99926) COMSUBGRU FIVE
          (99927) COMSUBGRU SEVEN
          (99928) COMSUBGRU EIGHT
          (57016) COMSUBLANT
          (57020) COMSUBPAC
          (99929) COMAEWWINGPAC
          (99930) COMRECONATKWING ONE
          (99931) VC ONE
          (09930) VQ ONE
          (09946) VQ TWO
          (09519) COMATWING ONE
          (99932) PHIBSCOL CORONADO
          (99933) IPAC
          (99934) NRRF KAMISEYA CTF72
          (99935) COMUSNAVPHIL-CTF 72
          (99936) CNO OP-96
          (99937) NFOIO FRIENDSHIP ANNEX
          (99938) DIA POMPONIO PLAZA
          (99939) DIA ANACOSTIA ANNEX
          (99940) DIA ARLINGTON HALL STATION
          (99941) DIA WASH NAVY YARD ANNEX
          (99942) DIA NSA ANNEX
          (99943) DIA ANMCC ANNEX
          (99944) DIA NEACP
          (99945) DIA CANADIAN DEF HQ
          (99946) DIA NATL MIL INTELL CENTER/
VAR005    (0) CONUS
          (1) EUROPE
          (2) PACIFIC
          (3) ATLANTIC-MED AFLOAT
          (4) PACIFIC AFLOAT/
VAR006    ('AF') AFLOAT COMMANDS
          ('AK') ALASKA
          ('AZ') AZORES
          ('CA') CALIFORNIA
          ('CN') NATIONALIST CHINA
          ('CZ') PANAMA CANAL ZONE
          ('DC') WASHINGTON DC
          ('FL') FLORIDA
          ('GM') GUAM
          ('GT') GUANTANAMO
          ('HI') HAWAII
          ('IC') ICELAND
          ('IT') ITALY
          ('JP') JAPAN
          ('KO') KOREA
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```
                ('LA') LOUISIANA
                ('MA') MARIANAS
                ('MD') MARYLAND
                ('ME') MAINE
                ('NB') NEBRASKA
                ('NY') NEW YORK
                ('PA') PENNSYLVANIA
                ('PI') PHILIPPINE ISLANDS
                ('PR') PUERTO RICO
                ('SC') SOUTH CAROLINA
                ('SP') SPAIN
                ('TH') THAILAND
                ('UK') UNITED KINGDOM
                ('VA') VIRGINIA/
          VAR007 (1) LCDR MOUNT
                (2) LT FOSTER
                (3) LT BICKELL
                (4) LT HUBER
                (5) LT WATSON/
          VAR011 (1) CIVILIAN
                (3) LIEUTENANT
                (4) LCDR
                (5) CDR
                (6) CAPT/
          VAR018 (0) LESS THAN BACHELORS DEGREE
                (1) BACHELORS LEVEL
                (2) POSTGRADUATE STUDIES
                (4) MASTERS LEVEL
                (5) DOCTORAL LEVEL/
          VAR020 (0) NOT FIRST
                (1) FIRST/
          VAR026,VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,
          VAR042,VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,
          VAR058 (0) NOT VALID
                (1) VALID/
          VAR084 (0) NO COMMENTS
                (1) NO FURTHER COMMENTS
                (2) ADDITIONAL COMMENTS/
          VAR087 TO VAR132,VAR137 TO VAR182
                (1) NOT NEEDED
                (2) BASIC KNOWLEDGE
                (3) WORKING KNOWLEDGE
                (4) EXPERT LEVEL/
PRINT FORMATS   VAR001,VAR003,VAR006,VAR010,VAR016,VAR017,VAR019,VAR061,
          VAR062,VAR064,VAR065,VAR069,VAR070,VAR072,VAR073,VAR077,
          VAR078,VAR083 (A)
          VAR002,VAR004,VAR005,VAR007 TO VAR009,VAR011 TO VAR015,
          VAR018,VAR020 TO VAR060,VAR062,VAR063,VAR065 TO VAR068,VAR070,
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                VAR071,VAR073 TO VAR076,VAR078 TO VAR082,VAR084 TO VAR186 (0)
CONDESCRIPTIVE  VAR011, VAR012, VAR018, VAR020 TO VAR022, VAR025 TO VAR058,
                VAR063, VAR066, VAR071, VAR074, VAR079, VAR080 TO VAR186
STATISTICS      ALL
READ INPUT DATA
SAVE FILE
FINISH
```

ALGOL SOURCE PROGRAM TO MERGE
QICARDS AND DlCARDS FILES

```
//HUBER08X JOB (2603,0678,'S42','HUBER,E.W.',TIME=4
//  EXEC ALGWCLG,PARM.GO='SIZE=150K',REGION.GO=230K
//ALGOL.SYSIN DD *
%ALGOL
BEGIN
INTEGER QICASENUMBER, DCASENUMBER;
STRING (80) BUFFER1, BUFFER2, BUFFER3;

PROCEDURE REWINDQICARDS; FORTRAN "RWND11";

PROCEDURE REWINDFILE12; FORTRAN "RWND12";

PROCEDURE REWINDDCARDS;
    BEGIN
    REWINDFILE12;
    DCASENUMBER := 0;
    END;

PROCEDURE GETQICARD (STRING (80) RESULT BUF); FORTRAN "READ11";

PROCEDURE PUTQIDCARD (STRING (80) VALUE BUF); FORTRAN "RITE14";

INTEGER PROCEDURE CONVERT (STRING (5) VALUE T);
  BEGIN INTEGER INTVALUE, POSITION;
    INTVALUE := POSITION := 0;
    WHILE (T[POSITION+1] = " ") AND (POSITION < 5) DO
      POSITION := POSITION + 1;
    FOR U := POSITION UNTIL 5 DO IF T[U+1] = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T[U+1]) - 240);
    XIT: CONVERT := INTVALUE;
    END;

PROCEDURE GETPUTCASE;
  FOR X := 1 UNTIL 5 DO
    BEGIN
    GETQICARD (BUFFER1);
    PUTQIDCARD (BUFFER1);
    IF X = 1 THEN QICASENUMBER := CONVERT (BUFFER1(76|3));
    IF X = 1 THEN BUFFER3(76|3) := BUFFER1(76|3);
    END;

PROCEDURE PUTDCARDOUT;
  BEGIN
  IF QICASENUMBER < DCASENUMBER THEN REWINDQICARDS;
  WHILE QICASENUMBER > DCASENUMBER DO READCARD (BUFFER2);
  IF QICASENUMBER = DCASENUMBER THEN PUTQIDCARD (BUFFER2) ELSE
    PUTQIDCARD (BUFFER3);
  END;
```

```
PROCEDURE READDCARD (STRING (80) RESULT BUF);
    BEGIN
    PROCEDURE READDIMAGE (STRING (80) RESULT BUFX); FORTRAN "READ12";
    READDIMAGE (BUF);
    DCASENUMBER := CONVERT(BUF(76|3));
    END;

PROCEDURE INITIALIZE;
    BEGIN
    REWINDQICARDS;
    REWINDDCARDS;
    QICASENUMBER := 0;
    BUFFER3 := " ";
    FOR X := 0 UNTIL 59 DO BUFFER3(X|1) := "9";
    BUFFER3(71|5) := "00003";
    BUFFER3(79|1) := "8";
    END;

WRITE ("START RUN");
INITIALIZE;
FOR X := 1 UNTIL 325 DO
    BEGIN
    GETPUTCASE;
    PUTDCARDOUT;
    WRITE (QICASENUMBER);
    END;
WRITE ("END RUN");
END.
//LINK.SYSLIB  DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//            DD DISP=SHR,DSN=SYS1.FORTLIB
//LINK.SYSPRINT DD DUMMY
//LINK.SYSIN   DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.FDALG3,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),SPACE=(CYL,(5,1)),
//            DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QICARDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),SPACE=(CYL,(25,2)),
//   DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.DICARDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(25,2)),
//   DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT14F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QIDICDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),SPACE=(CYL,(25,2),RLSE),
//   DISP=(NEW,KEEP),LABEL=RETPD=30
//GO.FT07F001 DD DUMMY
//GO.SYSIN   DD *
```

```
//HUBER3 JOB (2600,0678,YS42),'HUBER,E.W.',TIME=1
// EXEC SPSS,REGION=250K
//FT04F001 DD DSNAME=S2600.INTELLC,UNIT=2311,VOL=SER=SYS003,
// DISP=(NEW,KEEP),DCB=BLKSIZE=3624,LABEL=EXPDT=75100,
// SPACE=(CYL,(3,1))
//FT08F001  DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QIDICDS,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),DISP=SHR,LABEL=(,,,IN)
//SYSIN DD *
FILE NAME       INTELLC  QUESTIONNAIRE INTERVIEW DELPHIA FILE
RUN NAME        YS-42 T.A. GROUP QUESTIONNAIRE INTERVIEW DELPHI A FILE
VARIABLE LIST   VAR001 TO VAR212
# OF CASES      325
INPUT MEDIUM    DISK
INPUT FORMAT    FIXED (A25,F5.0,A37,F5.0,F1.0,A2,F1.0,F3.0,F1.0/
                A40,F1.0,F2.0,3F4.0,2A5,F1.0,A5,F1.0,2F2.0,F3.0,F1.0/
                17(F3.0,F1.0),8X,F3.0,F1.0/
                A32,A3,F3.0,A32,A3,2F3.0,F1.0/
                A32,A3,F3.0,A32,A3,2F3.0,F1.0/
                A32,A3,2F3.0,35X,F3.0,F1.0/
                A75,F1.0,F3.0,F1.0/
                46F1.0,27X,F1.0,F2.0,F3.0,F1.0/
                46F1.0,27X,F1.0,F2.0,F3.0,F1.0/
                20F3.0,11X,3F1.0,F2.0,F3.0,F1.0)
MISSING VALUES  VAR005,VAR007,VAR009,VAR011,VAR018,VAR020,VAR024,VAR026,
                VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,VAR042,
                VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,VAR058,
                VAR060,VAR068,VAR076,VAR082,VAR084,VAR086 TO VAR132,
                VAR137 TO VAR182 (9)/
                VAR012,VAR021,VAR022 (99)/
                VAR008,VAR023,VAR025,VAR027,VAR029,VAR031,VAR033,VAR035,
                VAR037,VAR039,VAR041,VAR043,VAR045,VAR047,VAR049,VAR051,
                VAR053,VAR055,VAR057,VAR059,VAR063,VAR066,VAR067,VAR071,
                VAR074,VAR075,VAR079,VAR080,VAR081,VAR085,
                VAR187 TO VAR206 (999)/
                VAR062,VAR065,VAR070,VAR073,VAR078 ('    ')/
                VAR013 TO VAR015 (9999)/
                VAR002,VAR004,VAR019 (99999)/
                VAR061,VAR064,VAR069,VAR072,VAR077
                ('                    ')
VAR LABELS      VAR001,COMMAND NAME/
                VAR002,BILLET SEQUENCE CODE/
                VAR003,BILLET TITLE/
                VAR004,UNIT IDENTIFICATION CODE/
                VAR005,CONUS-OVERSEAS/
                VAR006,COUNTRY-STATE CODE/
                VAR007,CODER CODE/
                VAR008,CARD #1 SEQUENCE/
                VAR009,CARD ONE NUMBER/
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VAR010,RESPONDENTS NAME/
VAR011,RESPONDENTS RANK/
VAR012,RESPONDENTS AGE/
VAR013,RESPONDENTS DESIGNATOR/
VAR014,RESPONDENTS PREVIOUS DESIGNATOR/
VAR015,RESPONDENTS FIRST DESIGNATOR/
VAR016,BILLET SUBSPECIALTY CODE/
VAR017,RESPONDENTS SUBSPECIALTY CODE/
VAR018,EDUCATIONAL LEVEL/
VAR019,TRAINING USED IN THIS BILLET/
VAR020,FIRST INTELL BILLET, NO-YES/
VAR021,YEARS PREVIOUS INTELL EXPERIENCE/
VAR022,MONTHS IN THIS BILLET/
VAR023,CARD #2 SEQUENCE/
VAR024,CARD TWO NUMBER/
VAR025,% INTELL OFFICE ADMIN/
VAR026,VALID INTELL OFFICE ADMIN/
VAR027,% BRIEFS AND DEBRIEFS/
VAR028,VALID BRIEFS AND DEBRIEFS/
VAR029,% BUDGETS AND BUDGETING/
VAR030,VALID BUDGETS AND BUDGETING/
VAR031,% CHARTS AND AUDIO-VISUAL AIDS/
VAR032,VALID CHARTS AND AUDIO-VISUAL AIDS/
VAR033,% COUNTERINTELLIGENCE STUDIES/
VAR034,VALID COUNTERINTELLIGENCE STUDIES/
VAR035,% DATA ANALYSIS/
VAR036,VALID DATA ANALYSIS/
VAR037,% DECISIONS AND RECOMMENDATIONS/
VAR038,VALID DECISIONS AND RECOMMENDATIONS/
VAR039,% ESTIMATES/
VAR040,VALID ESTIMATES/
VAR041,% INTELL ANNEXES TO OPORDS/
VAR042,VALID INTELL ANNEXES TO OPORDS/
VAR043,% INTELL COLLECTION PLANS/
VAR044,VALID INTELL COLLECTION PLANS/
VAR045,% INTELL COLLECTION TASKING/
VAR046,VALID INTELL COLLECTION TASKING/
VAR047,% INTELLIGENCE REPORTS/
VAR048,VALID INTELLIGENCE REPORTS/
VAR049,% INTELLIGENCE STUDIES/
VAR050,VALID INTELLIGENCE STUDIES/
VAR051,% INTERFACE ADP-TELECOMMS/
VAR052,VALID INTERFACE ADP-TELECOMMS/
VAR053,% ORDERS OF BATTLE/
VAR054,VALID ORDERS OF BATTLE/
VAR055,% PHYSICAL SECURITY/
VAR056,VALID PHYSICAL SECURITY/
VAR057,% TACTICAL PLOTS/
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VAR058,VALID TACTICAL PLOTS/
VAR059,CARD #3 SEQUENCE/
VAR060,CARD THREE NUMBER/
VAR061,FIRST INTELL OUTPUT ADDED/
VAR062,CODED FIRST ADDITIONAL OUTPUT/
VAR063,% FIRST INTELL OUTPUT ADDED/
VAR064,SECOND INTELL OUTPUT ADDED/
VAR065,CODED SECOND ADDITIONAL OUTPUT/
VAR066,% SECOND INTELL OUTPUT ADDED/
VAR067,CARD #4 SEQUENCE/
VAR068,CARD FOUR NUMBER/
VAR069,THIRD INTELL OUTPUT ADDED/
VAR070,CODED THIRD ADDITIONAL OUTPUT/
VAR071,% THIRD INTELL OUTPUT ADDED/
VAR072,FOURTH INTELL OUTPUT ADDED/
VAR073,CODED FOURTH ADDITIONAL OUTPUT/
VAR074,% FOURTH INTELL OUTPUT ADDED/
VAR075,CARD #5 SEQUENCE/
VAR076,CARD FIVE NUMBER/
VAR077,FIFTH INTELL OUTPUT ADDED/
VAR078,CODED FIFTH ADDITIONAL OUTPUT/
VAR079,% FIFTH INTELL OUTPUT ADDED/
VAR080,% NON-INTELLIGENCE OUTPUTS/
VAR081,CARD #6 SEQUENCE/
VAR082,CARD SIX NUMBER/
VAR083,RESPONDENTS COMMENTS/
VAR084,ARE COMMENTS CONTINUED?/
VAR085,CARD #7 SEQUENCE/
VAR086,CARD SEVEN NUMBER/
VAR087,U-COLLEGE ALGEBRA/
VAR088,U-BEGIN CALCULUS/
VAR089,U-PROBS & STATS/
VAR090,U-ADV. CALCULUS/
VAR091,U-FOREIGN LANGUAGE/
VAR092,U-USSR/
VAR093,U-CHINA/
VAR094,U-MID EAST/
VAR095,U-EUROPE/
VAR096,U-LATIN AMERICA/
VAR097,U-AFRICA/
VAR098,U-OPS ANALYSIS/
VAR099,U-INT'L RELATIONS/
VAR100,U-UW ACOUSTICS/
VAR101,U-SONAR SYSTEMS/
VAR102,U-COMM SYSTEMS/
VAR103,U-RADAR SYSTEMS/
VAR104,U-OPTICS/
VAR105,U-LASERS/

VAR106,U-COLLECTION SYSTEMS/
VAR107,U-NAT'L & NAV BUDGET PROC/
VAR108,U-THREAT & NET ASSESSMENT/
VAR109,U-NATIONAL SEC & INTELL ORGN/
VAR110,U-SOVIET NAVAL/
VAR111,U-SOVIET AIR FORCE/
VAR112,U-SOVIET GROUND/
VAR113,U-SOVIET PVO/
VAR114,U-SOVIET STRAT ROCKET TROOPS/
VAR115,U-SOVIET-MER-FISH-CCEAND/
VAR116,U-COLLECTION SYSTEMS/
VAR117,U-NAVAL STRAT-GENL PURPOSE/
VAR118,U-OTHER STRAT-GENL PURPOSE/
VAR119,U-ALLIED CAPABILITY/
VAR120,U-SYS DESIGN-ANAL-MGMT/
VAR121,U-HARDWARE OPER/
VAR122,U-SOFTWARE-PROGRAMMING/
VAR123,U-BASIC INTERFACE OPS/
VAR124,U-BRIEFING/
VAR125,U-WRITING/
VAR126,U-ORGANIZ OF THOUGHT/
VAR127,U-COLLECTION SYSTEMS/
VAR128,U-PERT/
VAR129,U-MGMT BY OBJECTIVES/
VAR130,U-PERSONNEL MGMT/
VAR131,U-FINANCIAL MGMT/
VAR132,U-LABOR RELATIONS/
VAR133,INTERVIEW CODER NUMBER/
VAR134,CARD #8 SUBCARD NUMBER/
VAR135,CARD #80I SEQUENCE/
VAR136,CARD #80I NUMBER/
VAR137,N-COLLEGE ALGEBRA/
VAR138,N-BEGIN CALCULUS/
VAR139,N-PROBS & STATS/
VAR140,N-ADV. CALCULUS/
VAR141,N-FOREIGN LANGUAGE/
VAR142,N-USSR/
VAR143,N-CHINA/
VAR144,N-MID EAST/
VAR145,N-EUROPE/
VAR146,N-LATIN AMERICA/
VAR147,N-AFRICA/
VAR148,N-OPS ANALYSIS/
VAR149,N-INT'L RELATIONS/
VAR150,N-UW ACOUSTICS/
VAR151,N-SONAR SYSTEMS/
VAR152,N-COMM SYSTEMS/
VAR153,N-RADAR SYSTEMS/

VAR154,N-OPTICS/
VAR155,N-LASERS/
VAR156,N-COLLECTION SYSTEMS/
VAR157,N-MAT'L & NAV BUDGET PROC/
VAR158,N-THREAT & NET ASSESSMENT/
VAR159,N-NATIONAL SEC & INTELL ORGN/
VAR160,N-SOVIET NAVAL/
VAR161,N-SOVIET AIR FORCE/
VAR162,N-SOVIET GROUND/
VAR163,N-SOVIET PVO/
VAR164,N-SOVIET STRAT ROCKET TROOPS/
VAR165,N-SOVIET-MER-FISH-OCEANO/
VAR166,N-COLLECTION SYSTEMS/
VAR167,N-NAVAL STRAT-GENL PURPOSE/
VAR168,N-OTHER STRAT-GENL PURPOSE/
VAR169,N-ALLIED CAPABILITY/
VAR170,N-SYS DESIGN-ANAL-MGMT/
VAR171,N-HARDWARE OPER/
VAR172,N-SOFTWARE-PROGRAMMING/
VAR173,N-BASIC INTERFACE CPS/
VAR174,N-BRIEFING/
VAR175,N-WRITING/
VAR176,N-ORGANIZ OF THOUGHT/
VAR177,N-COLLECTION SYSTEMS/
VAR178,N-PERT/
VAR179,N-MGMT BY OBJECTIVES/
VAR180,N-PERSONNEL MGMT/
VAR181,N-FINANCIAL MGMT/
VAR182,N-LABOR RELATIONS/
VAR183,INTERVIEW CODER NUMBER/
VAR184,CARD #8 SUBCARD NUMBER/
VAR185,CARD #802 SEQUENCE/
VAR186,CARD #802 NUMBER/
VAR187,D1-OFFICE ADMIN/
VAR188,D1-RESOURCE-ORGN MGMT/
VAR189,D1-BUDGET & FISCAL PLANS/
VAR190,D1-DECISIONS & RECOMMENDATIONS/
VAR191,D1-BRIEFS & DEBRIEFS/
VAR192,D1-LIAISON/
VAR193,D1-CHARTS & AUDIO-VISUAL AIDS/
VAR194,D1-COUNTERINTELLIGENCE STUDIES/
VAR195,D1-DATA ANALYSIS/
VAR196,D1-ESTIMATES/
VAR197,D1-INTELL ANNEXES TO OPORDS/
VAR198,D1-INTELL COLLECTION PLANS/
VAR199,D1-INTELL COLLECTION TASKING/
VAR200,D1-INTELL INFO REPORTS/
VAR201,D1-ADP & TELECOMMS INTERFACE/

```
                VAR202,D1-ORDERS OF BATTLE/
                VAR203,D1-PHYSICAL SECURITY/
                VAR204,D1-TACTICAL PLOTS/
                VAR205,D1-NON-INTELL RELATED OUTPUTS/
                VAR206,D1-COUNSELING & TRAINING/
                VAR207,D1-SPECIAL CASE FLAG/
                VAR208,D1-DIS QUESTION/
                VAR209,D1-IS THIS VALID DELPHI RESPONSE/
                VAR210,D1-CARD #8 SUBCARD NUMBER/
                VAR211,D1-CARD #803 SEQUENCE/
                VAR212,D1-CARD #803 NUMBER
COMMENT         THE FOLLOWING UNIT IDENTIFICATION CODES LISTED FOR
                VAR004 ARE VALID UIC'S UNLESS THE NUMBER BEGINS WITH 999XX.
COMMENT         SEQUENCE NUMBERS, VARS 008, 023, 059, 067, 075, 081, AND 085,
                ARE KEYED IN THE FOLLOWING MANNER:
                LCDR MOUNT HAS 001 THROUGH 199
                LT FOSTER HAS 200 THROUGH 399
                LT BICKELL HAS 400 THROUGH 599
                LT HUBER HAS 600 THROUGH 799
                LT WATSON HAS 800 THROUGH 999
VALUE LABELS    VAR004 (03360) USS SARATOGA
                       (03362) USS INDEPENDENCE
                       (03363) USS KITTY HAWK
                       (03321) USS HANCOCK
                       (03334) USS ORISKANY
                       (03341) USS MIDWAY
                       (03342) USS F D ROOSEVELT
                       (03343) USS CORAL SEA
                       (03359) USS FORRESTAL
                       (03361) USS RANGER
                       (03364) USS CONSTELLATION
                       (03366) USS AMERICA
                       (03367) USS KENNEDY
                       (03365) USS ENTERPRISE
                       (05840) USS BLUE RIDGE
                       (20001) USS MOUNT WHITNEY
                       (62856) NAF LAJES
                       (60200) NAS CECIL FIELD
                       (00213) NAS KEY WEST
                       (57007) COMIDEASTFOR
                       (00309) NB GUANTANAMO
                       (62769) NB SUBIC
                       (64591) JSTPS
                       (99901) COMCARGRU ONE
                       (99902) COMCARGRU TWO
                       (99903) COMCARGRU THREE
                       (99904) COMCARGRU FOUR
                       (99905) COMCARGRU FIVE
```

(99906) COMCARGRU SIX
(99907) COMCARGRU SEVEN
(63126) MISSILE CENTER PT MUGU
(30883) NOSIC
(66967) FOSIC NORFOLK
(66842) FOSIC LONDON
(66600) FOSIF ROTA
(66970) FOSIF WESTPAC
(63013) NUWEPNTRAGRUPAC
(57012) COMNAVAIRLANT
(57025) COMNAVAIRPAC
(09550) COMFAIRMED
(09117) COMFAIRKEF
(99908) COMPATWING ONE
(63981) COMPATWINGSLANT
(05917) COMPATWINGSPAC
(57015) COMPHIBLANT
(57019) COMPHIBPAC
(55297) COMPHIBRON ONE
(55335) COMPHIBRON THREE
(55269) COMPHIBRON FIVE
(55281) COMPHIBRON SEVEN
(00510) COMNAVSOUTH-COM15
(99909) USSOUTHCOM
(99910) CINCEASTLANT
(00061) CINCUSNAVEUR
(57006) COMNAVFORJAPAN
(62894) COMNAVFORKOREA
(31585) CINC UNC-USF KOREA
(57014) COMICEDEFOR
(63842) COMANFDC
(62822) COMUSTDC
(62982) USMAC JUSMAG THAI
(08961) COMSECONDFLT
(57007) COMTHIRDFLT
(57042) COMSIXTHFLT
(57024) COMSEVENTHFLT
(99911) CINCAL
(00038) CINCPAC
(00070) CINCPACFLT
(00066) CINCLANT
(00060) CINCLANTFLT
(63420) NIPSSA
(63415) DIA
(99912) FICEUR
(63186) FICPAC
(99913) FICEURLANT
(68166) NISC

(65134) PACOMELINTCEN
(65792) LANTCOMELINTCEN
(66400) NIPSTRAFAC
(99914) CTF 168
(99915) CTG 168.1
(99916) CTG 168.2
(99917) CTG 168.3
(99918) FITCLANT
(99919) FITCPAC
(00015) COMNAVINTCOM
(62930) NFOIO
(63285) NISHQ
(63051) NISO CHASN
(63493) NISO EUROPE
(99920) NISO JAPAN
(99921) NISO MARIANAS
(63053) NISO NEW ORLEANS
(63054) NISO NEW YORK
(63055) NISO NORFOLK
(63064) NISO HAWAII
(63057) NISO SAN DIEGO
(63056) NISO SAN FRANCISCO
(99922) COMCRUDESGRU EIGHT
(99923) COMCRUDESGRU TWELVE
(31695) NAVCOSSACT
(99924) FASOTRAGRULANT BRUNS
(96013) CNA
(99925) COMFLTCORGRU TWO
(62919) COMCARIBSEAFRON
(62928) COMEASTSEAFRON
(99926) COMSUBGRU FIVE
(99927) COMSUBGRU SEVEN
(99928) COMSUBGRU EIGHT
(57016) COMSUBLANT
(57020) COMSU3PAC
(99929) COMAEWWINGPAC
(99930) COMRECONATKWING ONE
(99931) VC ONE
(09930) VQ ONE
(09946) VQ TWO
(09519) COMATWING ONE
(99932) PHIBSCOL CORONADO
(99933) IPAC
(99934) NARF KAMISEYA CTF72
(99935) COMUSNAVPHIL-CTF 72
(99936) CNO OP-96
(99937) NFOIO FRIENDSHIP ANNEX
(99938) DIA POMPONIO PLAZA

(99939) DIA ANACOSTIA ANNEX
(99940) DIA ARLINGTON HALL STATION
(99941) DIA WASH NAVY YARD ANNEX
(99942) DIA NSA ANNEX
(99943) DIA ANMCC ANNEX
(99944) DIA NEACP
(99945) DIA CANADIAN DEF HQ
(99946) DIA NATL MIL INTELL CENTER/

VAR005 (0) CONUS
(1) EUROPE
(2) PACIFIC
(3) ATLANTIC-MED AFLOAT
(4) PACIFIC AFLOAT/

VAR006 ('AF') AFLOAT COMMANDS
('AK') ALASKA
('AZ') AZORES
('CA') CALIFORNIA
('CN') NATIONALIST CHINA
('CZ') PANAMA CANAL ZONE
('DC') WASHINGTON DC
('FL') FLORIDA
('GM') GUAM
('GT') GUANTANAMO
('HI') HAWAII
('IC') ICELAND
('IT') ITALY
('JP') JAPAN
('KO') KOREA
('LA') LOUISIANA
('MA') MARIANAS
('MD') MARYLAND
('ME') MAINE
('NB') NEBRASKA
('NY') NEW YORK
('PA') PENNSYLVANIA
('PI') PHILIPPINE ISLANDS
('PR') PUERTO RICO
('SC') SOUTH CAROLINA
('SP') SPAIN
('TH') THAILAND
('UK') UNITED KINGDOM
('VA') VIRGINIA/

VAR007 (1) LCDR MOUNT
(2) LT FOSTER
(3) LT BICKELL
(4) LT HUBER
(5) LT WATSON/

VAR011 (1) CIVILIAN

```
                    (3) LIEUTENANT
                    (4) LCDR
                    (5) CDR
                    (6) CAPT/
          VAR018 (0) LESS THAN BACHELORS DEGREE
                    (1) BACHELORS LEVEL
                    (2) POSTGRADUATE STUDIES
                    (4) MASTERS LEVEL
                    (5) DOCTORAL LEVEL/
          VAR020 (0) NOT FIRST
                    (1) FIRST/
          VAR026,VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,
          VAR042,VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,
          VAR058 (0) NOT VALID
                    (1) VALID/
          VAR084 (0) NO COMMENTS
                    (1) NO FURTHER COMMENTS
                    (2) ADDITIONAL COMMENTS/
          VAR087 TO VAR132,VAR137 TO VAR182
                    (1) NOT NEEDED
                    (2) BASIC KNOWLEDGE
                    (3) WORKING KNOWLEDGE
                    (4) EXPERT LEVEL/
          VAR207 (0) NOT SPECIAL CASE
                    (1) SPECIAL CASE/
          VAR208 (0) DIS QUESTION NOT ASKED
                    (1) DIS QUESTION NEGATIVE
                    (2) DIS QUESTION AFFIRMATIVE/
          VAR209 (0) DELPHI A NOT RECEIVED
                    (1) DELPHI A WAS RECEIVED/
PRINT FORMATS  VAR001,VAR003,VAR006,VAR010,VAR016,VAR017,VAR019,VAR061,
          VAR062,VAR064,VAR065,VAR069,VAR070,VAR072,VAR073,VAR077,
          VAR078,VAR083 (A)
          VAR002,VAR004,VAR005,VAR007 TO VAR009,VAR011 TO VAR015,
          VAR018,VAR020 TO VAR060,VAR062,VAR063,VAR065 TO VAR068,VAR070,
          VAR071,VAR073 TO VAR076,VAR078 TO VAR082,VAR084 TO VAR212 (0)
CONDESCRIPTIVE VAR187 TO VAR212
STATISTICS     ALL
READ INPUT DATA
SAVE FILE
FINISH
```

APPENDIX F

SAMPLE N

ALGOL SOURCE PROGRAM TO MERGE QID1CDS AND D2CARDS FILES

```
//HUBER09X JOB (2600,0678,YS42),'HUBER,E.W.',TIME=4
// EXEC ALGWCLG,PARM.GO='SIZE=150K',REGION.GO=230K
//ALGOL.SYSIN DD *
%ALGOL
BEGIN
INTEGER QID1CASENUMBER, D2CASENUMBER;
STRING (80) BUFFER1, BUFFER2, BUFFER3, D2BUFFER1, D2BUFFER2;

PROCEDURE REWINDQID1CARDS; FORTRAN "RWND11";

PROCEDURE REWINDFILE12; FORTRAN "RWND12";

PROCEDURE REWINDD2CARDS;
   BEGIN
   REWINDFILE12;
   D2CASENUMBER := 0;
   D2BUFFER1 := D2BUFFER2 := " ";
   END;

PROCEDURE GETQID1CARD (STRING (80) RESULT BUF); FORTRAN "READ11";

PROCEDURE READD2CARD (STRING (80) RESULT BUF); FORTRAN "READ12";

PROCEDURE PUTQIDCARD (STRING (80) VALUE BUF); FORTRAN "RITE14";

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
   BEGIN INTEGER INTVALUE, POSITION;
   INTVALUE := POSITION := 0;
   WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(J|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;

PROCEDURE GETPUTCASE;
   FOR X := 1 UNTIL 10 DO
      BEGIN
      GETQID1CARD(BUFFER1);
      PUTQIDCARD(BUFFER1);
      IF X = 1 THEN QID1CASENUMBER := CONVERT(BUFFER1(76|3));
      IF X = 1 THEN BUFFER2(76|3) := BUFFER3(76|3) := BUFFER1(76|3);
      END;

PROCEDURE PUTD2CARDOUT;
   BEGIN
   IF QID1CASENUMBER < D2CASENUMBER THEN REWINDD2CARDS;
   WHILE QID1CASENUMBER > D2CASENUMBER DO GETNEXTD2SET;
```

```
    IF QID1CASENUMBER = D2CASENUMBER THEN
       BEGIN
       PUTQIDCARD(D2BUFFER1);
       PUTQIDCARD(D2BUFFER2);
       IF (D2BUFFER1(74|2) ¬= "04") OR (D2BUFFER2(74|2) ¬= "05") OR
          (D2BUFFER1(79|1) ¬= "8") OR (D2BUFFER2(79|1) ¬= "8") THEN
          WRITEON (" INVALID CONTROL BLOCK");
       END
       ELSE
       BEGIN
       PUTQIDCARD(BUFFER2);
       PUTQIDCARD(BUFFER3)
       END;
    END;

PROCEDURE GETNEXTD2SET;
    BEGIN
    STRING (3) CARD1CASE, CARD2CASE;
    PROCEDURE ROLLIN (INTEGER VALUE QTY);
       FOR X := 1 UNTIL QTY DO IF D2BUFFER2(75|3) ¬= "999" THEN
          BEGIN
          D2BUFFER1 := D2BUFFER2;
          READD2CARD(D2BUFFER2);
          CARD1CASE := D2BUFFER1(76|3);
          CARD2CASE := D2BUFFER2(76|3);
          END;
    ROLLIN (2);
    WHILE (CARD1CASE ¬= CARD2CASE) AND (CARD2CASE ¬= "999") DO
       BEGIN
       WRITEON (" D2CARD MISSING ", CARD1CASE, " ", CARD2CASE);
       ROLLIN (1);
       END;
    D2CASENUMBER := CONVERT(D2BUFFER2(76|3));
    END;

PROCEDURE INITIALIZE;
    BEGIN
    REWINDQID1CARDS;
    REWINDD2CARDS;
    QID1CASENUMBER := 0;
    BUFFER2 := BUFFER3 := " ";
    FOR X := 0 UNTIL 59 DO BUFFER2(X|1) := "9";
    FOR X := 0 UNTIL 55 DO BUFFER3(X|1) := "9";
    BUFFER2(60|1) := "0";
    BUFFER2(73|3) := "004";
    BUFFER2(79|1) := BUFFER3(79|1) := "8";
    BUFFER3(73|3) := "005";
    END;
```

```
WRITE ("START RUN");
INITIALIZE;
FOR X := 1 UNTIL 325 DO
   BEGIN
   GETPUTCASE;
   PUTD2CARDOUT;
   WRITE (QIDICASENUMBER);
   END;
WRITE ("END RUN");
END.
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//            DD DISP=SHR,DSN=SYS1.FORTLIB
//LINK.SYSPRINT DD DUMMY
//LINK.SYSIN  DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.FDALG3,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),SPACE=(CYL,(5,1)),
//            DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT11F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QID1CDS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),SPACE=(CYL,(25,2)),
//  DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT12F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.D2CARDS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),SPACE=(CYL,(25,2)),
//  DISP=(OLD,KEEP),LABEL=(,,,IN)
//GO.FT14F001 DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QID12CDS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),SPACE=(CYL,(25,2),RLSE),
//  DISP=(NEW,KEEP),LABEL=RETPD=30
//GO.FT07F001 DD DUMMY
//GO.SYSIN  DD *
```

```
//HUBER1 JOB (2600,0678,YS42),'HUBER,E.W.',TIME=1
// EXEC SPSS,REGION=250K
//FT04F001 DD DSNAME=S2600.INTELL,UNIT=2314,VOL=SER=MARY,
// DISP=(NEW,KEEP),DCB=BLKSIZE=3624,LABEL=EXPDT=75100,
// SPACE=(TRK,(140,5))
//FT08F001    DD UNIT=2311,VOL=SER=SYS003,DSN=S2600.QID12CDS,
//  DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),DISP=SHR,LABEL=(,,,IN)
//SYSIN DD *
FILE NAME       INTELLD  QUEST-INTER-DEL A-DEL B COMBINED FILES
RUN NAME        YS-42 T.A. GROUP QUEST INTER DELPHI A DELPHI B FILE
VARIABLE LIST   VAR001 TO VAR347
# OF CASES      325
INPUT MEDIUM    DISK
INPUT FORMAT    FIXED (A25,F5.0,A37,F5.0,F1.0,A2,F1.0,F3.0,F1.0/
                A40,F1.0,F2.0,3F4.0,2A5,F1.0,A5,F1.0,2F2.0,F3.0,F1.0/
                17(F3.0,F1.0),8X,F3.0,F1.0/
                A32,A3,F3.0,A32,A3,2F3.0,F1.0/
                A32,A3,F3.0,A32,A3,2F3.0,F1.0/
                A32,A3,2F3.0,35X,F3.0,F1.0/
                A75,F1.0,F3.0,F1.0/
                46F1.0,27X,F1.0,F2.0,F3.0,F1.0/
                46F1.0,27X,F1.0,F2.0,F3.0,F1.0/
                20F3.0,11X,3F1.0,F2.0,F3.0,F1.0/
                61F1.0,12X,F1.0,F2.0,F3.0,F1.0/
                66F1.0,7X,F1.0,F2.0,F3.0,F1.0)
MISSING VALUES  VAR005,VAR007,VAR009,VAR011,VAR018,VAR020,VAR024,VAR026,
                VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,VAR042,
                VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,VAR058,
                VAR060,VAR068,VAR076,VAR082,VAR084,VAR086 TO VAR132,
                VAR137 TO VAR182,VAR213 TO VAR272,VAR278 TO VAR343 (9)/
                VAR012,VAR021,VAR022 (99)/
                VAR003,VAR023,VAR025,VAR027,VAR029,VAR031,VAR033,VAR035,
                VAR037,VAR039,VAR041,VAR043,VAR045,VAR047,VAR049,VAR051,
                VAR053,VAR055,VAR057,VAR059,VAR063,VAR066,VAR067,VAR071,
                VAR074,VAR075,VAR079,VAR080,VAR081,VAR085,
                VAR187 TO VAR206 (999)/
                VAR062,VAR065,VAR070,VAR073,VAR078 ('   ')/
                VAR013 TO VAR015 (9999)/
                VAR002,VAR004 (99999)/
                VAR061,VAR064,VAR069,VAR072,VAR077
                ('                    ')
VAR LABELS      VAR001,COMMAND NAME/
                VAR002,BILLET SEQUENCE CODE/
                VAR003,BILLET TITLE/
                VAR004,UNIT IDENTIFICATION CODE/
                VAR005,CONUS-OVERSEAS/
                VAR006,COUNTRY-STATE CODE/
                VAR007,CODER CODE/
```

```
VAR008,CARD #1 SEQUENCE/
VAR009,CARD ONE NUMBER/
VAR010,RESPONDENTS NAME/
VAR011,RESPONDENTS RANK/
VAR012,RESPONDENTS AGE/
VAR013,RESPONDENTS DESIGNATOR/
VAR014,RESPONDENTS PREVIOUS DESIGNATOR/
VAR015,RESPONDENTS FIRST DESIGNATOR/
VAR016,BILLET SUBSPECIALTY CODE/
VAR017,RESPONDENTS SUBSPECIALTY CODE/
VAR018,EDUCATIONAL LEVEL/
VAR019,TRAINING USED IN THIS BILLET/
VAR020,FIRST INTELL BILLET, NO-YES/
VAR021,YEARS PREVIOUS INTELL EXPERIENCE/
VAR022,MONTHS IN THIS BILLET/
VAR023,CARD #2 SEQUENCE/
VAR024,CARD TWO NUMBER/
VAR025,% INTELL OFFICE ADMIN/
VAR026,VALID INTELL OFFICE ADMIN/
VAR027,% BRIEFS AND DEBRIEFS/
VAR028,VALID BRIEFS AND DEBRIEFS/
VAR029,% BUDGETS AND BUDGETING/
VAR030,VALID BUDGETS AND BUDGETING/
VAR031,% CHARTS AND AUDIO-VISUAL AIDS/
VAR032,VALID CHARTS AND AUDIO-VISUAL AIDS/
VAR033,% COUNTERINTELLIGENCE STUDIES/
VAR034,VALID COUNTERINTELLIGENCE STUDIES/
VAR035,% DATA ANALYSIS/
VAR036,VALID DATA ANALYSIS/
VAR037,% DECISIONS AND RECOMMENDATIONS/
VAR038,VALID DECISIONS AND RECOMMENDATIONS/
VAR039,% ESTIMATES/
VAR040,VALID ESTIMATES/
VAR041,% INTELL ANNEXES TO OPORDS/
VAR042,VALID INTELL ANNEXES TO OPORDS/
VAR043,% INTELL COLLECTION PLANS/
VAR044,VALID INTELL COLLECTION PLANS/
VAR045,% INTELL COLLECTION TASKING/
VAR046,VALID INTELL COLLECTION TASKING/
VAR047,% INTELLIGENCE REPORTS/
VAR048,VALID INTELLIGENCE REPORTS/
VAR049,% INTELLIGENCE STUDIES/
VAR050,VALID INTELLIGENCE STUDIES/
VAR051,% INTERFACE ADP-TELECOMMS/
VAR052,VALID INTERFACE ADP-TELECOMMS/
VAR053,% ORDERS OF BATTLE/
VAR054,VALID ORDERS OF BATTLE/
VAR055,% PHYSICAL SECURITY/
```

VAR056,VALID PHYSICAL SECURITY/
VAR057,% TACTICAL PLOTS/
VAR058,VALID TACTICAL PLOTS/
VAR059,CARD #3 SEQUENCE/
VAR060,CARD THREE NUMBER/
VAR061,FIRST INTELL OUTPUT ADDED/
VAR062,CODED FIRST ADDITIONAL OUTPUT/
VAR063,% FIRST INTELL OUTPUT ADDED/
VAR064,SECOND INTELL OUTPUT ADDED/
VAR065,CODED SECOND ADDITIONAL OUTPUT/
VAR066,% SECOND INTELL OUTPUT ADDED/
VAR067,CARD #4 SEQUENCE/
VAR068,CARD FOUR NUMBER/
VAR069,THIRD INTELL OUTPUT ADDED/
VAR070,CODED THIRD ADDITIONAL OUTPUT/
VAR071,% THIRD INTELL OUTPUT ADDED/
VAR072,FOURTH INTELL OUTPUT ADDED/
VAR073,CODED FOURTH ADDITIONAL OUTPUT/
VAR074,% FOURTH INTELL OUTPUT ADDED/
VAR075,CARD #5 SEQUENCE/
VAR076,CARD FIVE NUMBER/
VAR077,FIFTH INTELL OUTPUT ADDED/
VAR078,CODED FIFTH ADDITIONAL OUTPUT/
VAR079,% FIFTH INTELL OUTPUT ADDED/
VAR080,% NON-INTELLIGENCE OUTPUTS/
VAR081,CARD #6 SEQUENCE/
VAR082,CARD SIX NUMBER/
VAR083,RESPONDENTS COMMENTS/
VAR084,ARE COMMENTS CONTINUED?/
VAR085,CARD #7 SEQUENCE/
VAR086,CARD SEVEN NUMBER/
VAR087,U-COLLEGE ALGEBRA/
VAR088,U-BEGIN CALCULUS/
VAR089,U-PROBS & STATS/
VAR090,U-ADV. CALCULUS/
VAR091,U-FOREIGN LANGUAGE/
VAR092,U-USSR/
VAR093,U-CHINA/
VAR094,U-MID EAST/
VAR095,U-EUROPE/
VAR096,U-LATIN AMERICA/
VAR097,U-AFRICA/
VAR098,U-OPS ANALYSIS/
VAR099,U-INT'L RELATIONS/
VAR100,U-UW ACOUSTICS/
VAR101,U-SONAR SYSTEMS/
VAR102,U-COMM SYSTEMS/
VAR103,U-RADAR SYSTEMS/

VAR104,U-OPTICS/
VAR105,U-LASERS/
VAR106,U-COLLECTION SYSTEMS/
VAR107,U-NAT'L & NAV BUDGET PROC/
VAR108,U-THREAT & NET ASSESSMENT/
VAR109,U-NATIONAL SEC & INTELL ORGN/
VAR110,U-SOVIET NAVAL/
VAR111,U-SOVIET AIR FORCE/
VAR112,U-SOVIET GROUND/
VAR113,U-SOVIET PVO/
VAR114,U-SOVIET STRAT ROCKET TROOPS/
VAR115,U-SOVIET-MER-FISH-OCEANO/
VAR116,U-COLLECTION SYSTEMS/
VAR117,U-NAVAL STRAT-GENL PURPOSE/
VAR118,U-OTHER STRAT-GENL PURPOSE/
VAR119,U-ALLIED CAPABILITY/
VAR120,U-SYS DESIGN-ANAL-MGMT/
VAR121,U-HARDWARE OPER/
VAR122,U-SOFTWARE-PROGRAMMING/
VAR123,U-BASIC INTERFACE OPS/
VAR124,U-BRIEFING/
VAR125,U-WRITING/
VAR126,U-ORGANIZ OF THOUGHT/
VAR127,U-COLLECTION SYSTEMS/
VAR128,U-PERT/
VAR129,U-MGMT BY OBJECTIVES/
VAR130,U-PERSONNEL MGMT/
VAR131,U-FINANCIAL MGMT/
VAR132,U-LABOR RELATIONS/
VAR133,INTERVIEW CODER NUMBER/
VAR134,CARD #8 SUBCARD NUMBER/
VAR135,CARD #80I SEQUENCE/
VAR136,CARD #80I NUMBER/
VAR137,N-COLLEGE ALGEBRA/
VAR138,N-BEGIN CALCULUS/
VAR139,N-PROBS & STATS/
VAR140,N-ADV. CALCULUS/
VAR141,N-FOREIGN LANGUAGE/
VAR142,N-USSR/
VAR143,N-CHINA/
VAR144,N-MID EAST/
VAR145,N-EUROPE/
VAR146,N-LATIN AMERICA/
VAR147,N-AFRICA/
VAR148,N-OPS ANALYSIS/
VAR149,N-INT'L RELATIONS/
VAR150,N-UW ACOUSTICS/
VAR151,N-SONAR SYSTEMS/

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VAR152,N-COMM SYSTEMS/
VAR153,N-RADAR SYSTEMS/
VAR154,N-OPTICS/
VAR155,N-LASERS/
VAR156,N-COLLECTION SYSTEMS/
VAR157,N-NAVY BUDGET PROG/
VAR158,N-THREAT & NET ASSESSMENT/
VAR159,N-NATIONAL SEC & INTELL ORGN/
VAR160,N-SOVIET NAVAL FORCE/
VAR161,N-SOVIET AIR FORCE/
VAR162,N-SOVIET GROUND/
VAR163,N-SOVIET STRAT ROCKET TROOPS/
VAR164,N-SOVIET-MER-FISH-OCEANO/
VAR165,N-SOVIET-MER-FISH-OCEANO/
VAR166,N-COLLECTION SYSTEMS/
VAR167,N-NAVAL STRAT-GENL PURPOSE/
VAR168,N-OTHER STRAT-GENL PURPOSE/
VAR169,N-ALLIED CAPABILITY/
VAR170,N-SYS DESIGN-ANAL-MGMT/
VAR171,N-HARDWARE OPER/
VAR172,N-SOFTWARE-PROGRAMMING/
VAR173,N-BASIC INTERFACE OPS/
VAR174,N-BRIEFING/
VAR175,N-PRINTING/
VAR176,N-ORGANIZE OF THOUGHT/
VAR177,N-COLLECTION SYSTEMS/
VAR178,N-MGMT/
VAR179,N-MGMT BY OBJECTIVES/
VAR180,N-PERSONNEL MGMT/
VAR181,N-FINANCIAL MGMT/
VAR182,N-LABOR RELATIONS/
VAR183,INTERVIEW CODER NUMBER/
VAR184,CARD #8 SUBCARD NUMBER/
VAR185,CARD #802 SEQUENCE/
VAR186,CARD #802 NUMBER/
VAR187,01-OFFICE ADMIN/
VAR188,01-RESOURCE-ORGN MGMT/
VAR189,01-BUDGET & FISCAL PLANS/
VAR190,01-DECISIONS & RECOMMENDATIONS/
VAR191,01-BRIEFS & DEBRIEFS/
VAR192,01-LIAISON/ AUDIO-VISUAL AIDS/
VAR193,01-COUNTRY INTELLIGENCE STUDIES/
VAR194,01-DATA ANALYSIS/
VAR195,01-ESTIMATES/
VAR196,01-INTELL ANNEXES TO OPORDS/
VAR197,01-INTELL COLLECTION PLANS/
VAR198,01-INTELL COLLECTION TASKING/
VAR199,01-INTELL
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VAR200,D1-INTELL INFO REPORTS/
VAR201,D1-ADP & TELECOMMS INTERFACE/
VAR202,D1-ORDERS OF BATTLE/
VAR203,D1-PHYSICAL SECURITY/
VAR204,D1-TACTICAL PLOTS/
VAR205,D1-NON-INTELL RELATED OUTPUTS/
VAR206,D1-COUNSELING & TRAINING/
VAR207,D1-SPECIAL CASE FLAG/
VAR208,D1-DIS QUESTION/
VAR209,D1-IS THIS VALID DELPHI RESPONSE/
VAR210,D1-CARD #8 SUBCARD NUMBER/
VAR211,D1-CARD #803 SEQUENCE/
VAR212,D1-CARD #803 NUMBER/
VAR213,D2-U-COLLEGE ALGEBRA/
VAR214,D2-N-COLLEGE ALGEBRA/
VAR215,D2-F-COLLEGE ALGEBRA/
VAR216,D2-U-BEGINNING CALCULUS/
VAR217,D2-N-BEGINNING CALCULUS/
VAR218,D2-F-BEGINNING CALCULUS/
VAR219,D2-U-ADVANCED CALCULUS/
VAR220,D2-N-ADVANCED CALCULUS/
VAR221,D2-F-ADVANCED CALCULUS/
VAR222,D2-U-PROBABILITY & STATISTICS/
VAR223,D2-N-PROBABILITY & STATISTICS/
VAR224,D2-F-PROBABILITY & STATISTICS/
VAR225,D2-U-FOREIGN LANGUAGE/
VAR226,D2-N-FOREIGN LANGUAGE/
VAR227,D2-F-FOREIGN LANGUAGE/
VAR228,D2-U-AREA STUDY USSR/
VAR229,D2-N-AREA STUDY USSR/
VAR230,D2-F-AREA STUDY USSR/
VAR231,D2-U-AREA STUDY CHINA/
VAR232,D2-N-AREA STUDY CHINA/
VAR233,D2-F-AREA STUDY CHINA/
VAR234,D2-U-AREA STUDY MID EAST/
VAR235,D2-N-AREA STUDY MID EAST/
VAR236,D2-F-AREA STUDY MID EAST/
VAR237,D2-U-AREA STUDY EUROPE/
VAR238,D2-N-AREA STUDY EUROPE/
VAR239,D2-F-AREA STUDY EUROPE/
VAR240,D2-U-AREA STUDY LATIN AMERICA/
VAR241,D2-N-AREA STUDY LATIN AMERICA/
VAR242,D2-F-AREA STUDY LATIN AMERICA/
VAR243,D2-U-AREA STUDY AFRICA/
VAR244,D2-N-AREA STUDY AFRICA/
VAR245,D2-F-AREA STUDY AFRICA/
VAR246,D2-U-OPERATIONS ANALYSIS/
VAR247,D2-N-OPERATIONS ANALYSIS/
```

VAR248,D2-F-OPERATIONS ANALYSIS/
VAR249,D2-U-INTL RELATIONS THEORY/
VAR250,D2-N-INTL RELATIONS THEORY/
VAR251,D2-F-INTL RELATIONS THEORY/
VAR252,D2-U-UW ACOUSTICS/
VAR253,D2-N-UW ACOUSTICS/
VAR254,D2-F-UW ACOUSTICS/
VAR255,D2-U-SONAR SYSTEMS/
VAR256,D2-N-SONAR SYSTEMS/
VAR257,D2-F-SONAR SYSTEMS/
VAR258,D2-U-COMM SYSTEMS/
VAR259,D2-N-COMM SYSTEMS/
VAR260,D2-F-COMM SYSTEMS/
VAR261,D2-U-RADAR SYSTEMS/
VAR262,D2-N-RADAR SYSTEMS/
VAR263,D2-F-RADAR SYSTEMS/
VAR264,D2-U-OPTICS/
VAR265,D2-N-OPTICS/
VAR266,D2-F-OPTICS/
VAR267,D2-U-LASERS/
VAR268,D2-N-LASERS/
VAR269,D2-F-LASERS/
VAR270,D2-U-COLLECTION SYSTEMS/
VAR271,D2-N-COLLECTION SYSTEMS/
VAR272,D2-F-COLLECTION SYSTEMS/
VAR273,D2-SPCIAL CASE FLAG/
VAR274,D2-IS THIS VALID DELPHI B RESPONSE/
VAR275,D2-CARD #804 SUBCARD NUMBER/
VAR276,D2-CARD #804 SEQUENCE/
VAR277,D2-CARD #804 NUMBER/
VAR278,D2-U-THREAT-NET ASSESSMENT/
VAR279,D2-N-THREAT-NET ASSESSMENT/
VAR280,D2-F-THREAT-NET ASSESSMENT/
VAR281,D2-U-NATL SECURITY & INTELL ORGN/
VAR282,D2-N-NATL SECURITY & INTELL ORGN/
VAR283,D2-F-NATL SECURITY & INTELL ORGN/
VAR284,D2-U-SOVIET NAVY STUDY/
VAR285,D2-N-SOVIET NAVY STUDY/
VAR286,D2-F-SOVIET NAVY STUDY/
VAR287,D2-U-SOVIET AF STUDY/
VAR288,D2-N-SOVIET AF STUDY/
VAR289,D2-F-SOVIET AF STUDY/
VAR290,D2-U-SOVIET GROUND FORCE STUDY/
VAR291,D2-N-SOVIET GROUND FORCE STUDY/
VAR292,D2-F-SOVIET GROUND FORCE STUDY/
VAR293,D2-U-SOVIET SRT STUDY/
VAR294,D2-N-SOVIET SRT STUDY/
VAR295,D2-F-SOVIET SRT STUDY/

VAR296,D2-U-SOVIET MER-FISH-OCEANO STUDY/
VAR297,D2-N-SOVIET MER-FISH-OCEANO STUDY/
VAR298,D2-F-SOVIET MER-FISH-OCEANO STUDY/
VAR299,D2-U-US NAVAL FORCES/
VAR300,D2-N-US NAVAL FORCES/
VAR301,D2-F-US NAVAL FORCES/
VAR302,D2-U-OTHER US FORCES/
VAR303,D2-N-OTHER US FORCES/
VAR304,D2-F-OTHER US FORCES/
VAR305,D2-U-ALLIED CAPABILITY/
VAR306,D2-N-ALLIED CAPABILITY/
VAR307,D2-F-ALLIED CAPABILITY/
VAR308,D2-U-ADP-SYSTEM DESIGN & MGMT/
VAR309,D2-N-ADP-SYSTEM DESIGN & MGMT/
VAR310,D2-F-ADP-SYSTEM DESIGN & MGMT/
VAR311,D2-U-ADP-HARDWARE OPERATIONS/
VAR312,D2-N-ADP-HARDWARE OPERATIONS/
VAR313,D2-F-ADP-HARDWARE OPERATIONS/
VAR314,D2-U-ADP-PROGRAMMING/
VAR315,D2-N-ADP-PROGRAMMING/
VAR316,D2-F-ADP-PROGRAMMING/
VAR317,D2-U-ADP-BASIC INTERFACE OPERATIONS/
VAR318,D2-N-ADP-BASIC INTERFACE OPERATIONS/
VAR319,D2-F-ADP-BASIC INTERFACE OPERATIONS/
VAR320,D2-U-MGMT BY OBJECTIVES/
VAR321,D2-N-MGMT BY OBJECTIVES/
VAR322,D2-F-MGMT BY OBJECTIVES/
VAR323,D2-U-PERSONNEL MGMT/
VAR324,D2-N-PERSONNEL MGMT/
VAR325,D2-F-PERSONNEL MGMT/
VAR326,D2-U-FINANCIAL MGMT/
VAR327,D2-N-FINANCIAL MGMT/
VAR328,D2-F-FINANCIAL MGMT/
VAR329,D2-U-NATL & NAVAL BUDGET PROCESS/
VAR330,D2-N-NATL & NAVAL BUDGET PROCESS/
VAR331,D2-F-NATL & NAVAL BUDGET PROCESS/
VAR332,D2-U-LABOR RELATIONS/
VAR333,D2-N-LABOR RELATIONS/
VAR334,D2-F-LABOR RELATIONS/
VAR335,D2-U-BRIEFING/
VAR336,D2-N-BRIEFING/
VAR337,D2-F-BRIEFING/
VAR338,D2-U-WRITING/
VAR339,D2-N-WRITING/
VAR340,D2-F-WRITING/
VAR341,D2-U-ORGANIZATION OF THOUGHT/
VAR342,D2-N-ORGANIZATION OF THOUGHT/
VAR343,D2-F-ORGANIZATION OF THOUGHT/

```
                VAR344,D2-IS THIS VALID DELPHI B RESPONSE/
                VAR345,D2-CARD #805 SUBCARD NUMBER/
                VAR346,D2-CARD #805 SEQUENCE/
                VAR347,D2-CARD #805 CARD NUMBER
COMMENT         THE FOLLOWING UNIT IDENTIFICATION CODES LISTED FOR
                VAR004 ARE VALID UIC'S UNLESS THE NUMBER BEGINS WITH 999XX.
COMMENT         SEQUENCE NUMBERS, VARS 008, 023, 059, 067, 075, 081, AND 085,
                ARE KEYED IN THE FOLLOWING MANNER:
                LCDR MOUNT HAS 001 THROUGH 199
                LT FOSTER HAS 200 THROUGH 399
                LT BICKELL HAS 400 THROUGH 599
                LT HUBER HAS 600 THROUGH 799
                LT WATSON HAS 800 THROUGH 999
VALUE LABELS    VAR004 (03360) USS SARATOGA
                       (03362) USS INDEPENDENCE
                       (03363) USS KITTY HAWK
                       (03321) USS HANCOCK
                       (03334) USS ORISKANY
                       (03341) USS MIDWAY
                       (03342) USS F D ROOSEVELT
                       (03343) USS CORAL SEA
                       (03359) USS FORRESTAL
                       (03361) USS RANGER
                       (03364) USS CONSTELLATION
                       (03366) USS AMERICA
                       (03367) USS KENNEDY
                       (03365) USS ENTERPRISE
                       (05840) USS BLUE RIDGE
                       (20001) USS MOUNT WHITNEY
                       (62856) NAF LAJES
                       (60200) NAS CECIL FIELD
                       (00213) NAS KEY WEST
                       (57007) COMIDEASTFOR
                       (00309) NB GUANTANAMO
                       (62769) NB SUBIC
                       (64591) JSTPS
                       (99901) COMCARGRU ONE
                       (99902) COMCARGRU TWO
                       (99903) COMCARGRU THREE
                       (99904) COMCARGRU FOUR
                       (99905) COMCARGRU FIVE
                       (99906) COMCARGRU SIX
                       (99907) COMCARGRU SEVEN
                       (63126) MISSILE CENTER PT MUGU
                       (30883) NOSIC
                       (66967) FOSIC NORFOLK
                       (66842) FOSIC LONDON
                       (66600) FOSIF ROTA
```

(66970) FOSIF WESTPAC
(63013) NUWEPNTRAGRUPAC
(57012) COMNAVAIRLANT
(57025) COMNAVAIRPAC
(09550) COMFAIRMED
(09117) COMFAIRKEF
(99908) COMPATWING ONE
(63981) COMPATWINGSLANT
(05917) COMPATWINGSPAC
(57015) COMPHIBLANT
(57019) COMPHIBPAC
(55297) COMPHIBRON ONE
(55335) COMPHIBRON THREE
(55269) COMPHIBRON FIVE
(55281) COMPHIBRON SEVEN
(00510) COMNAVSOUTH-COM15
(99909) USSOUTHCOM
(99910) CINCEASTLANT
(00061) CINCUSNAVEUR
(57006) COMNAVFORJAPAN
(62894) COMNAVFORKOREA
(31585) CINC UNC-USF KOREA
(57014) COMICEDEFOR
(63842) COMANTDC
(62822) COMUSTDC
(62082) USMAC JUSMAG THAI
(08961) COMSECONDFLT
(57087) COMTHIRDFLT
(57042) COMSIXTHFLT
(57024) COMSEVENTHFLT
(99911) CINCAL
(00038) CINCPAC
(00070) CINCPACFLT
(00066) CINCLANT
(00060) CINCLANTFLT
(63420) NIPSSA
(63415) DIA
(99912) FICEUR
(63186) FICPAC
(99913) FICEURLANT
(68166) NISC
(65134) PACOMELINTCEN
(65792) LANTCOMELINTCEN
(66400) NIPSTRAFAC
(99914) CTF 168
(99915) CTG 168.1
(99916) CTG 168.2
(99917) CTG 168.3

(99918) FITCLANT
(99919) FITCPAC
(00015) COMNAVINTCOM
(62930) NFOIO
(63285) NISHQ
(63051) NISO CHASN
(65493) NISO EUROPE
(99920) NISO JAPAN
(99921) NISO MARIANAS
(63053) NISO NEW ORLEANS
(63054) NISO NEW YORK
(63055) NISO NORFOLK
(63064) NISO HAWAII
(63057) NISO SAN DIEGO
(63058) NISO SAN FRANCISCO
(99922) COMCRUDESGRU EIGHT
(99923) COMCRUDESGRU TWELVE
(31695) NAVCOSSACT
(99924) FASOTRAGRULANT BRUNS
(96013) CNA
(99925) COMFLTCORGRU TWO
(62919) COMCARIBSEAFRON
(62928) COMEASTSEAFRON
(99926) COMSUBGRU FIVE
(99927) COMSUBGRU SEVEN
(99928) COMSUBGRU EIGHT
(57016) COMSUBLANT
(57020) COMSUBPAC
(99929) COMAEWWINGPAC
(99930) COMRECONATKWING ONE
(99931) VC ONE
(09930) VQ ONE
(09946) VQ TWO
(09519) COMATWING ONE
(99932) PHIBSCOL CORONADO
(99933) IPAC
(99934) NRRF KAMISEYA CTF72
(99935) COMUSNAVPHIL-CTF 72
(99936) CNO OP-96
(99937) NFOIO FRIENDSHIP ANNEX
(99938) DIA POMPONIO PLAZA
(99939) DIA ANACOSTIA ANNEX
(99940) DIA ARLINGTON HALL STATION
(99941) DIA WASH NAVY YARD ANNEX
(99942) DIA NSA ANNEX
(99943) DIA ANMCC ANNEX
(99944) DIA NEACP
(99945) DIA CANADIAN DEF HQ

```
        (99946) DIA NATL MIL INTELL CENTER/
VAR005  (0) CONUS
        (1) EUROPE
        (2) PACIFIC
        (3) ATLANTIC-MED AFLOAT
        (4) PACIFIC AFLOAT/
VAR006  ('AF') AFLOAT COMMANDS
        ('AK') ALASKA
        ('AZ') AZORES
        ('CA') CALIFORNIA
        ('CN') NATIONALIST CHINA
        ('CZ') PANAMA CANAL ZONE
        ('DC') WASHINGTON DC
        ('FL') FLORIDA
        ('GM') GUAM
        ('GT') GUANTANAMO
        ('HI') HAWAII
        ('IC') ICELAND
        ('IT') ITALY
        ('JP') JAPAN
        ('KO') KOREA
        ('LA') LOUISIANA
        ('MA') MARIANAS
        ('MD') MARYLAND
        ('ME') MAINE
        ('NB') NEBRASKA
        ('NY') NEW YORK
        ('PA') PENNSYLVANIA
        ('PI') PHILIPPINE ISLANDS
        ('PR') PUERTO RICO
        ('SC') SOUTH CAROLINA
        ('SP') SPAIN
        ('TH') THAILAND
        ('UK') UNITED KINGDOM
        ('VA') VIRGINIA/
VAR007  (1) LCDR MOUNT
        (2) LT FOSTER
        (3) LT BICKELL
        (4) LT HUBER
        (5) LT WATSON/
VAR011  (1) CIVILIAN
        (3) LIEUTENANT
        (4) LCDR
        (5) CDR
        (6) CAPT/
VAR018  (0) LESS THAN BACHELORS DEGREE
        (1) BACHELORS LEVEL
        (2) POSTGRADUATE STUDIES
```

```
                    (4) MASTERS LEVEL
                    (5) DOCTORAL LEVEL/
               VAR020 (0) NOT FIRST
                    (1) FIRST/
               VAR026,VAR028,VAR030,VAR032,VAR034,VAR036,VAR038,VAR040,
               VAR042,VAR044,VAR046,VAR048,VAR050,VAR052,VAR054,VAR056,
               VAR058 (0) NOT VALID
                    (1) VALID/
               VAR084 (0) NO COMMENTS
                    (1) NO FURTHER COMMENTS
                    (2) ADDITIONAL COMMENTS/
               VAR087 TO VAR132,VAR137 TO VAR182,VAR213 TO VAR272,
               VAR275 TO VAR343
                    (1) NOT NEEDED
                    (2) BASIC KNOWLEDGE
                    (3) WORKING KNOWLEDGE
                    (4) EXPERT LEVEL/
               VAR207,VAR273
                    (0) NOT SPECIAL CASE
                    (1) SPECIAL CASE/
               VAR208 (0) DIS QUESTION NOT ASKED
                    (1) DIS QUESTION NEGATIVE
                    (2) DIS QUESTION AFFIRMATIVE/
               VAR209 (0) DELPHI A NOT RECEIVED
                    (1) DELPHI A WAS RECEIVED/
               VAR274,VAR344
                    (0) DELPHI B NOT RECEIVED
                    (1) DELPHI B WAS RECEIVED/
PRINT FORMATS  VAR001,VAR003,VAR006,VAR010,VAR016,VAR017,VAR019,VAR061,
               VAR062,VAR064,VAR065,VAR069,VAR070,VAR072,VAR073,VAR077,
               VAR078,VAR083 (A)

CODEBOOK       VAR213
OPTIONS        4
STATISTICS     ALL
READ INPUT DATA
SAVE FILE
FINISH
```

APPENDIX F

SAMPLE P

ALGOL SOURCE PROGRAM TO VALIDATE QCARDS FILE, WITH EXAMPLE PRINTOUT

```
//HUBER003 JOB (2600,0678,YS42),'HUBER,E.W.'
// EXEC ALGWCLG
//ALGOL.SYSIN DD *
%ALGOL
BEGIN

STRING (25) VAR001;
STRING (37) VAR003;
STRING (2) VAR006;
STRING (40) VAR010;
STRING (32) VAR061, VAR064, VAR069, VAR072, VAR077;
STRING (75) VAR083;
STRING (1) VAR005A, VAR007A, VAR009A, VAR011A, VAR018A, VAR020A,
   VAR024A, VAR026A, VAR028A, VAR030A, VAR032A, VAR034A, VAR036A,
   VAR038A, VAR040A, VAR042A, VAR044A, VAR046A, VAR048A, VAR050A,
   VAR052A, VAR054A, VAR056A, VAR058A, VAR060A, VAR068A, VAR076A,
   VAR082A, VAR084A, VAR086A;
STRING (2) VAR012A, VAR021A, VAR022A;
STRING (3) VAR008A, VAR023A, VAR025A, VAR027A, VAR029A, VAR031A,
   VAR033A, VAR035A, VAR037A, VAR039A, VAR041A, VAR043A, VAR045A,
   VAR047A, VAR049A, VAR051A, VAR053A, VAR055A, VAR057A, VAR059A,
   VAR062A, VAR063A, VAR065A, VAR066A, VAR067A, VAR070A, VAR071A,
   VAR073A, VAR074A, VAR075A, VAR078A, VAR079A, VAR080A, VAR081A,
   VAR085A;
STRING (4) VAR013A, VAR014A, VAR015A;
STRING (5) VAR002A, VAR004A, VAR016, VAR017, VAR019;
INTEGER VAR002, VAR004, VAR005, VAR007, VAR008, VAR009,
   VAR011, VAR012, VAR013, VAR014, VAR015, VAR018, VAR020, VAR021,
   VAR022, VAR023, VAR024, VAR025, VAR026, VAR027, VAR028, VAR029,
   VAR030, VAR031, VAR032, VAR033, VAR034, VAR035, VAR036, VAR037,
   VAR038, VAR039, VAR040, VAR041, VAR042, VAR043, VAR044, VAR045,
   VAR046, VAR047, VAR048, VAR049, VAR050, VAR051, VAR052, VAR053,
   VAR054, VAR055, VAR056, VAR057, VAR058, VAR059, VAR060, VAR062,
   VAR063, VAR065, VAR066, VAR067, VAR068, VAR070, VAR071, VAR073,
   VAR074, VAR075, VAR076, VAR078, VAR079, VAR080, VAR081, VAR082,
   VAR084, VAR085, VAR086, QCASES;

INTEGER PROCEDURE CONVERT (STRING (6) VALUE T);
   BEGIN INTEGER INTVALUE, POSITION;
   INTVALUE := POSITION := 0;
   WHILE (T(POSITION|1) = " ") AND (POSITION ¬= 5) DO
      POSITION := POSITION + 1;
   FOR U := POSITION UNTIL 5 DO IF T(U|1) = " " THEN GO TO XIT ELSE
      INTVALUE := 10 * INTVALUE + (DECODE(T(J|1)) - 240);
   XIT: POSITION := 0;
   INTVALUE END;

PROCEDURE GETCASE;
```

```
    BEGIN IMAGE1;
    IMAGE2;
    IMAGE3;
    IMAGE4;
    IMAGE5;
    IMAGE6;
    IMAGE7;
    END;

PROCEDURE IMAGE1;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR001 := BUFFER(0|25);
    VAR002 := CONVERT (BUFFER(25|5));
    VAR002A := BUFFER(25|5);
    VAR003 := BUFFER(30|37);
    VAR004 := CONVERT (BUFFER(67|5));
    VAR004A := BUFFER(67|5);
    VAR005 := CONVERT (BUFFER(72|1));
    VAR005A := BUFFER(72|1);
    VAR006 := BUFFER (73|2);
    VAR007 := CONVERT (BUFFER(75|1));
    VAR007A := BUFFER(75|1);
    VAR008 := CONVERT (BUFFER(76|3));
    VAR008A := BUFFER(76|3);
    VAR009 := CONVERT (BUFFER(79|1));
    VAR009A := BUFFER(79|1);
    END;

PROCEDURE IMAGE2;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR010 := BUFFER(0|40);
    VAR011 := CONVERT (BUFFER(40|1));
    VAR011A := BUFFER(40|1);
    VAR012 := CONVERT (BUFFER(41|2));
    VAR012A := BUFFER(41|2);
    VAR013 := CONVERT (BUFFER(43|4));
    VAR013A := BUFFER(43|4);
    VAR014 := CONVERT (BUFFER(47|4));
    VAR014A := BUFFER(47|4);
    VAR015 := CONVERT (BUFFER(51|4));
    VAR015A := BUFFER(51|4);
    VAR016 := BUFFER(55|5);
    VAR017 := BUFFER(60|5);
    VAR018 := CONVERT (BUFFER(65|1));
    VAR018A := BUFFER(65|1);
    VAR019 := BUFFER(66|5);
```

```
    VAR020 := CONVERT (BUFFER(71|1));
    VAR020A := BUFFER(71|1);
    VAR021 := CONVERT (BUFFER(72|2));
    VAR021A := BUFFER(72|2);
    VAR022 := CONVERT (BUFFER(74|2));
    VAR022A := BUFFER(74|2);
    VAR023 := CONVERT (BUFFER(76|3));
    VAR023A := BUFFER(76|3);
    VAR024 := CONVERT (BUFFER(79|1));
    VAR024A := BUFFER(79|1);
    END;

PROCEDURE IMAGE3;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR025 := CONVERT (BUFFER(0|3));
    VAR025A := BUFFER(0|3);
    VAR026 := CONVERT (BUFFER(3|1));
    VAR026A := BUFFER(3|1);
    VAR027 := CONVERT (BUFFER(4|3));
    VAR027A := BUFFER(4|3);
    VAR028 := CONVERT (BUFFER(7|1));
    VAR028A := BUFFER(7|1);
    VAR029 := CONVERT (BUFFER(8|3));
    VAR029A := BUFFER(8|3);
    VAR030 := CONVERT (BUFFER(11|1));
    VAR030A := BUFFER(11|1);
    VAR031 := CONVERT (BUFFER(12|3));
    VAR031A := BUFFER(12|3);
    VAR032 := CONVERT (BUFFER(15|1));
    VAR032A := BUFFER(15|1);
    VAR033 := CONVERT (BUFFER(16|3));
    VAR033A := BUFFER(16|3);
    VAR034 := CONVERT (BUFFER(19|1));
    VAR034A := BUFFER(19|1);
    VAR035 := CONVERT (BUFFER(20|3));
    VAR035A := BUFFER(20|3);
    VAR036 := CONVERT (BUFFER(23|1));
    VAR036A := BUFFER(23|1);
    VAR037 := CONVERT (BUFFER(24|3));
    VAR037A := BUFFER(24|3);
    VAR038 := CONVERT (BUFFER(27|1));
    VAR038A := BUFFER(27|1);
    VAR039 := CONVERT (BUFFER(28|3));
    VAR039A := BUFFER(28|3);
    VAR040 := CONVERT (BUFFER(31|1));
    VAR040A := BUFFER(31|1);
    VAR041 := CONVERT (BUFFER(32|3));
```

```
    VAR041A := BUFFER(32|3);
    VAR042 := CONVERT (BUFFER(35|1));
    VAR042A := BUFFER(35|1);
    VAR043 := CONVERT (BUFFER(36|3));
    VAR043A := BUFFER(36|3);
    VAR044 := CONVERT (BUFFER(39|1));
    VAR044A := BUFFER(39|1);
    VAR045 := CONVERT (BUFFER(40|3));
    VAR045A := BUFFER(40|3);
    VAR046 := CONVERT (BUFFER(43|1));
    VAR046A := BUFFER(43|1);
    VAR047 := CONVERT (BUFFER(44|3));
    VAR047A := BUFFER(44|3);
    VAR048 := CONVERT (BUFFER(47|1));
    VAR048A := BUFFER(47|1);
    VAR049 := CONVERT (BUFFER(48|3));
    VAR049A := BUFFER(48|3);
    VAR050 := CONVERT (BUFFER(51|1));
    VAR050A := BUFFER(51|1);
    VAR051 := CONVERT (BUFFER(52|3));
    VAR051A := BUFFER(52|3);
    VAR052 := CONVERT (BUFFER(55|1));
    VAR052A := BUFFER(55|1);
    VAR053 := CONVERT (BUFFER(56|3));
    VAR053A := BUFFER(56|3);
    VAR054 := CONVERT (BUFFER(59|1));
    VAR054A := BUFFER(59|1);
    VAR055 := CONVERT (BUFFER(60|3));
    VAR055A := BUFFER(60|3);
    VAR056 := CONVERT (BUFFER(63|1));
    VAR056A := BUFFER(63|1);
    VAR057 := CONVERT (BUFFER(64|3));
    VAR057A := BUFFER(64|3);
    VAR058 := CONVERT (BUFFER(67|1));
    VAR058A := BUFFER(67|1);
    VAR059 := CONVERT (BUFFER(76|3));
    VAR059A := BUFFER(76|3);
    VAR060 := CONVERT (BUFFER(79|1));
    VAR060A := BUFFER(79|1);
    END;

PROCEDURE IMAGE4;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR061 := BUFFER(0|32);
    VAR062 := CONVERT (BUFFER(32|3));
    VAR062A := BUFFER(32|3);
    VAR063 := CONVERT (BUFFER(35|3));
```

```
    VAR063A := BUFFER(35|3);
    VAR064 := BUFFER(38|32);
    VAR065 := CONVERT (BUFFER(70|3));
    VAR065A := BUFFER(70|3);
    VAR066 := CONVERT (BUFFER(73|3));
    VAR066A := BUFFER(73|3);
    VAR067 := CONVERT (BUFFER(76|3));
    VAR067A := BUFFER(76|3);
    VAR068 := CONVERT (BUFFER(79|1));
    VAR068A := BUFFER(79|1);
    END;

PROCEDURE IMAGE5;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR069 := BUFFER(0|32);
    VAR070 := CONVERT (BUFFER(32|3));
    VAR070A := BUFFER(32|3);
    VAR071 := CONVERT (BUFFER(35|3));
    VAR071A := BUFFER(35|3);
    VAR072 := BUFFER(38|32);
    VAR073 := CONVERT (BUFFER(70|3));
    VAR073A := BUFFER(70|3);
    VAR074 := CONVERT (BUFFER(73|3));
    VAR074A := BUFFER(73|3);
    VAR075 := CONVERT (BUFFER(76|3));
    VAR075A := BUFFER(76|3);
    VAR076 := CONVERT (BUFFER(79|1));
    VAR076A := BUFFER(79|1);
    END;

PROCEDURE IMAGE6;
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR077 := BUFFER(0|32);
    VAR078 := CONVERT (BUFFER(32|3));
    VAR078A := BUFFER(32|3);
    VAR079 := CONVERT (BUFFER(35|3));
    VAR079A := BUFFER(35|3);
    VAR080 := CONVERT (BUFFER(38|3));
    VAR080A := BUFFER(38|3);
    VAR081 := CONVERT (BUFFER(76|3));
    VAR081A := BUFFER(76|3);
    VAR082 := CONVERT (BUFFER(79|1));
    VAR082A := BUFFER(79|1);
    END;

PROCEDURE IMAGE7;
```

```
    BEGIN STRING (80) BUFFER;
    READCARD (BUFFER);
    VAR083 := BUFFER(0|75);
    VAR084 := CONVERT (BUFFER(75|1));
    VAR084A := BUFFER(75|1);
    VAR085 := CONVERT (BUFFER(76|3));
    VAR085A := BUFFER(76|3);
    VAR086 := CONVERT (BUFFER(79|1));
    VAR086A := BUFFER(79|1);
    END;

PROCEDURE VALIDATECASE;
BEGIN
LOGICAL PROCEDURE DESIGCHECK (INTEGER VALUE DESIGX);
    BEGIN
    INTEGER DESIG;
    LOGICAL ANSWER;
    DESIG := (DESIGX DIV 10) * 10;
    ANSWER := IF ((DESIG = 1100) OR (DESIG = 1110) OR (DESIG = 1120) OR
        (DESIG = 1130) OR (DESIG = 1310) OR (DESIG = 1320) OR
        (DESIG = 1350) OR (DESIG = 1630) OR (DESIG = 6620) OR
        (DESIG = 6630) OR (DESIG = 1610) OR (DESIG = 0000) OR
        (DESIG = 9990)) THEN TRUE ELSE FALSE;
    ANSWER END;
IF ¬((VAR004 = 03360) OR (VAR004 = 03362) OR (VAR004 = 03363) OR
    (VAR004 = 03321) OR (VAR004 = 03334) OR (VAR004 = 03341) OR
    (VAR004 = 03342) OR (VAR004 = 03343) OR (VAR004 = 03359) OR
    (VAR004 = 03361) OR (VAR004 = 03364) OR (VAR004 = 03365) OR
    (VAR004 = 03367) OR (VAR004 = 03365) OR (VAR004 = 05840) OR
    (VAR004 = 20001) OR (VAR004 = 62856) OR (VAR004 = 60200) OR
    (VAR004 = 00213) OR (VAR004 = 57007) OR (VAR004 = 00309) OR
    (VAR004 = 62769) OR (VAR004 = 64591) OR (VAR004 = 99901) OR
    (VAR004 = 99902) OR (VAR004 = 99903) OR (VAR004 = 99904) OR
    (VAR004 = 99905) OR (VAR004 = 99906) OR (VAR004 = 99907) OR
    (VAR004 = 63126) OR (VAR004 = 30883) OR (VAR004 = 66967) OR
    (VAR004 = 66842) OR (VAR004 = 66600) OR (VAR004 = 66970) OR
    (VAR004 = 63013) OR (VAR004 = 57012) OR (VAR004 = 57025) OR
    (VAR004 = 09550) OR (VAR004 = 09117) OR (VAR004 = 99908) OR
    (VAR004 = 63981) OR (VAR004 = 05917) OR (VAR004 = 57015) OR
    (VAR004 = 57019) OR (VAR004 = 55297) OR (VAR004 = 55335) OR
    (VAR004 = 55269) OR (VAR004 = 55281) OR (VAR004 = 00510) OR
    (VAR004 = 99909) OR (VAR004 = 99910) OR (VAR004 = 00061) OR
    (VAR004 = 57006) OR (VAR004 = 62894) OR (VAR004 = 31585) OR
    (VAR004 = 57014) OR (VAR004 = 63842) OR (VAR004 = 62822) OR
    (VAR004 = 62982) OR (VAR004 = 08951) OR (VAR004 = 57087) OR
    (VAR004 = 57042) OR (VAR004 = 57024) OR (VAR004 = 99911) OR
    (VAR004 = 00038) OR (VAR004 = 00070) OR (VAR004 = 00066) OR
    (VAR004 = 00060) OR (VAR004 = 63420) OR (VAR004 = 63415) OR
```

```
    (VAR004 = 99912) OR (VAR004 = 63186) OR (VAR004 = 99913) OR
    (VAR004 = 68166) OR (VAR004 = 65134) OR (VAR004 = 65792) OR
    (VAR004 = 66400) OR (VAR004 = 99914) OR (VAR004 = 99915) OR
    (VAR004 = 99916) OR (VAR004 = 99917) OR (VAR004 = 99918) OR
    (VAR004 = 99919) OR (VAR004 = 00015) OR (VAR004 = 62930) OR
    (VAR004 = 63285) OR (VAR004 = 63051) OR (VAR004 = 65493) OR
    (VAR004 = 99920) OR (VAR004 = 99921) OR (VAR004 = 63053) OR
    (VAR004 = 63054) OR (VAR004 = 63055) OR (VAR004 = 63064) OR
    (VAR004 = 63056) OR (VAR004 = 63057) OR (VAR004 = 63058) OR
    (VAR004 = 99922) OR (VAR004 = 99923) OR (VAR004 = 31695) OR
    (VAR004 = 99924) OR (VAR004 = 96013) OR (VAR004 = 99925) OR
    (VAR004 = 62919) OR (VAR004 = 62928) OR (VAR004 = 99926) OR
    (VAR004 = 99927) OR (VAR004 = 99928) OR (VAR004 = 57016) OR
    (VAR004 = 57020) OR (VAR004 = 99929) OR (VAR004 = 99930) OR
    (VAR004 = 99931) OR (VAR004 = 09930) OR (VAR004 = 09946) OR
    (VAR004 = 09519) OR (VAR004 = 99932) OR (VAR004 = 99933) OR
    (VAR004 = 99934) OR (VAR004 = 99935) OR (VAR004 = 99936) OR
    (VAR004 = 99937) OR (VAR004 = 99938) OR (VAR004 = 99939) OR
    (VAR004 = 99940) OR (VAR004 = 99941) OR (VAR004 = 99942) OR
    (VAR004 = 99943) OR (VAR004 = 99944) OR (VAR004 = 99945) OR
    (VAR004 = 99946))
    THEN WRITE ("INVALID UNIT IDENTIFICATION CODE");
IF (VAR005 < 0) OR (VAR005 > 4) THEN WRITE ("INVALID GEOGRAPHIC CODE");
IF ¬((VAR006 = "AK") OR (VAR006 = "AZ") OR (VAR006 = "CA") OR
    (VAR006 = "CN") OR (VAR006 = "CZ") OR (VAR006 = "DC") OR
    (VAR006 = "FL") OR (VAR006 = "GM") OR (VAR006 = "GT") OR
    (VAR006 = "HI") OR (VAR006 = "IC") OR (VAR006 = "IT") OR
    (VAR006 = "JP") OR (VAR006 = "KO") OR (VAR006 = "LA") OR
    (VAR006 = "MA") OR (VAR006 = "MD") OR (VAR006 = "ME") OR
    (VAR006 = "NB") OR (VAR006 = "NY") OR (VAR006 = "PA") OR
    (VAR006 = "PI") OR (VAR006 = "PR") OR (VAR006 = "SC") OR
    (VAR006 = "SP") OR (VAR006 = "TH") OR (VAR006 = "UK") OR
    (VAR006 = "VA") OR (VAR006 = "AF")) THEN WRITE
    ("INVALID STATE/COUNTRY CODE");
IF (((VAR007 = 1) AND (VAR008 >= 200)) OR
    ((VAR007 = 2) AND ((VAR008 < 200) OR (VAR008 >= 400))) OR
    ((VAR007 = 3) AND ((VAR008 < 400) OR (VAR008 >= 600))) OR
    ((VAR007 = 4) AND ((VAR008 < 600) OR (VAR008 >= 800))) OR
    ((VAR007 = 5) AND (VAR008 < 800))) THEN WRITE
    ("CODER NUMBER DOES NOT AGREE WITH CASE BLOCK NUMBERS");
IF (VAR007 < 1) OR (VAR007 > 5) THEN WRITE ("INVALID CODER NUMBER");
IF (VAR008 ¬= VAR023) OR (VAR008 ¬= VAR059) OR (VAR008 ¬= VAR067) OR
    (VAR008 ¬= VAR075) OR (VAR008 ¬= VAR081) OR (VAR008 ¬= VAR085) THEN
    WRITE ("CASE NUMBERS NOT EQUAL THROUGHOUT THE CASE");
IF (VAR009 ¬= 1) OR (VAR024 ¬= 2) OR (VAR050 ¬= 3) OR (VAR068 ¬= 4) OR
    (VAR076 ¬= 5) OR (VAR082 ¬= 6) OR (VAR086 ¬= 7) THEN WRITE
    ("INVALID CARD NUMBER");
IF ¬((VAR011 = 1) OR ((VAR011 >= 3) AND (VAR011 <= 6))) THEN
```

```
   WRITE ("INVALID RANK CODE");
IF (VAR012 < 30) OR ((VAR012 > 55) AND (VAR012 ¬= 99))
   THEN WRITE ("CAUTION, CHECK AGE");
IF ¬(DESIGCHECK(VAR013) AND DESIGCHECK(VAR014) AND
   DESIGCHECK(VAR015)) THEN WRITE ("POSSIBLE INVALID DESIGNATOR");
IF (VAR018 < 0) OR ((VAR018 > 5) AND (VAR018 ¬= 9))
   THEN WRITE ("INVALID EDUCATION CODE");
IF ¬((VAR020 = 0) OR (VAR020 = 1) OR (VAR020 = 9)) THEN WRITE
   ("INVALID FIRST ENTELL BILLET CODE");
IF (VAR021 < 0) OR ((VAR021 > 25) AND (VAR021 ¬= 99)) THEN WRITE
   ("CAUTION, CHECK YEARS EXPERIENCE");
IF (VAR022 < 0) OR ((VAR022 > 48) AND (VAR022 ¬= 99)) THEN WRITE
   ("CAUTION, CHECK MONTHS IN BILLET");
IF +(IF VAR025 = 999 THEN 0 ELSE VAR025)
   +(IF VAR027 = 999 THEN 0 ELSE VAR027)
   +(IF VAR029 = 999 THEN 0 ELSE VAR029)
   +(IF VAR031 = 999 THEN 0 ELSE VAR031)
   +(IF VAR033 = 999 THEN 0 ELSE VAR033)
   +(IF VAR035 = 999 THEN 0 ELSE VAR035)
   +(IF VAR037 = 999 THEN 0 ELSE VAR037)
   +(IF VAR039 = 999 THEN 0 ELSE VAR039)
   +(IF VAR041 = 999 THEN 0 ELSE VAR041)
   +(IF VAR043 = 999 THEN 0 ELSE VAR043)
   +(IF VAR045 = 999 THEN 0 ELSE VAR045)
   +(IF VAR047 = 999 THEN 0 ELSE VAR047)
   +(IF VAR049 = 999 THEN 0 ELSE VAR049)
   +(IF VAR051 = 999 THEN 0 ELSE VAR051)
   +(IF VAR053 = 999 THEN 0 ELSE VAR053)
   +(IF VAR055 = 999 THEN 0 ELSE VAR055)
   +(IF VAR057 = 999 THEN 0 ELSE VAR057)
   +(IF VAR063 = 999 THEN 0 ELSE VAR063)
   +(IF VAR066 = 999 THEN 0 ELSE VAR066)
   +(IF VAR071 = 999 THEN 0 ELSE VAR071)
   +(IF VAR074 = 999 THEN 0 ELSE VAR074)
   +(IF VAR079 = 999 THEN 0 ELSE VAR079)
   +(IF VAR080 = 999 THEN 0 ELSE VAR080) ¬= 100 THEN WRITE
   ("CAUTION, OUTPUTS DON'T EQUAL 100%");
IF ¬((VAR026 = 0) OR (VAR026 = 1) OR (VAR026 = 9)) OR
   ¬((VAR028 = 0) OR (VAR028 = 1) OR (VAR028 = 9)) OR
   ¬((VAR030 = 0) OR (VAR030 = 1) OR (VAR030 = 9)) OR
   ¬((VAR032 = 0) OR (VAR032 = 1) OR (VAR032 = 9)) OR
   ¬((VAR034 = 0) OR (VAR034 = 1) OR (VAR034 = 9)) OR
   ¬((VAR036 = 0) OR (VAR036 = 1) OR (VAR036 = 9)) OR
   ¬((VAR038 = 0) OR (VAR038 = 1) OR (VAR038 = 9)) OR
   ¬((VAR040 = 0) OR (VAR040 = 1) OR (VAR040 = 9)) OR
   ¬((VAR042 = 0) OR (VAR042 = 1) OR (VAR042 = 9)) OR
   ¬((VAR044 = 0) OR (VAR044 = 1) OR (VAR044 = 9)) OR
   ¬((VAR046 = 0) OR (VAR046 = 1) OR (VAR046 = 9)) OR
```

```
    ¬((VAR048 = 0) OR (VAR048 = 1) OR (VAR048 = 9)) OR
    ¬((VAR050 = 0) OR (VAR050 = 1) OR (VAR050 = 9)) OR
    ¬((VAR052 = 0) OR (VAR052 = 1) OR (VAR052 = 9)) OR
    ¬((VAR054 = 0) OR (VAR054 = 1) OR (VAR054 = 9)) OR
    ¬((VAR056 = 0) OR (VAR056 = 1) OR (VAR056 = 9)) OR
    ¬((VAR058 = 0) OR (VAR058 = 1) OR (VAR058 = 9)) THEN WRITE
    ("INVALID OUTPUT VALIDITY CODE");
IF ¬((VAR084 = 0) OR (VAR084 = 1) OR (VAR084 = 2)) OR ((VAR084 = 0) AND
    (VAR083(0|30) ¬= "                                    ")) THEN WRITE
    ("INVALID COMMENTS CONTINUATION CODE");
    END;


READ (QCASES);
FOR I := 1 UNTIL QCASES DO
BEGIN GETCASE;
WRITE (VAR008A);
VALIDATECASE;
END;
END.
//LINK.SYSLIB DD UNIT=2314,VOL=SER=DUFFY,DISP=SHR,DSN=S2600.ALGOLW
//            DD DISP=SHR,DSN=SYS3.ALGOLW,UNIT=2314,VOL=SER=LINDA
//LINK.SYSPRINT DD DUMMY
//GO.SYSIN DD UNIT=2311,VOL=SER=SYS003,DISP=(OLD,KEEP),LABEL=(,,,IN),
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=3600),DSNAME=S2600.QCARDS
//GO.SYSIN DD *
```

```
832
833
834
835
836
837
838
CAUTION, OUTPUTS DON'T EQUAL 100%
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
CAUTION, CHECK AGE
868
869
870
871
CAUTION, CHECK YEARS EXPERIENCE
872
POSSIBLE INVALID DESIGNATOR
873
874
875
876
```

ALGOL SOURCE PROGRAM TO PRINT
AND VERIFY D2CARDS, WITH EXAMPLE PRINTOUT

```
//HUBER8 JOB (2600,0578,YS42),'HUBER,E.W.'
//  EXEC ALGOLW
//SYSPRINT DD SYSOUT=D,SPACE=(CYL,(5,1))
//SYSIN DD *
%ALGOL PAGES=350
BEGIN
STRING (80) BUFFER1, BUFFER2;
STRING (3) CARDICASE, CARD2CASE;

PROCEDURE ROLLIN (INTEGER VALUE QTY);
  FOR X := 1 UNTIL QTY DO
    BEGIN
    BUFFER1 := BUFFER2;
    READCARD(BUFFER2);
    CARDICASE := BUFFER1(76|3);
    CARD2CASE := BUFFER2(76|3);
    IF CARD2CASE = "999" THEN GO TO THATSALL;
    END;

WRITE ("START RUN");
TOP: IOCONTROL (3);
ROLLIN (2);
WHILE CARDICASE ¬= CARD2CASE DO
  BEGIN
  WRITE ("CARD MISSING ", CARDICASE, " ", CARD2CASE);
  ROLLIN (1);
  END;
IOCONTROL (3);
WRITE ("CASE NUMBER ", CARDICASE, " D2CARD PRINTOUT");
IF BUFFER1(60|1) = "1" THEN WRITEON ("FLAGGED AS SPECIAL CASE");
IF (BUFFER1(73|3) ¬= "104") OR (BUFFER1(79|1) ¬= "8") OR
   (BUFFER2(73|3) ¬= "105") OR (BUFFER2(79|1) ¬= "8")
   THEN WRITE ("INVALID CONTROL BLOCK");
IF ¬((BUFFER1(60|1) = "0") OR (BUFFER1(60|1) = "1"))
   THEN WRITE ("INVALID FLAG CODE");
WRITE (" ");
FOR X := 0 STEP 3 UNTIL 57 DO WRITE (BUFFER1(X|1), "  ",
   BUFFER1(X+1|1), "  ", BUFFER1(X+2|1));
WRITE (" ");
FOR X := 0 STEP 3 UNTIL 63 DO WRITE (BUFFER2(X|1), "  ",
   BUFFER2(X+1|1), "  ", BUFFER2(X+2|1));
FOR X := 0 UNTIL 59 DO IF (BUFFER1(X|1) = "1") OR
   (BUFFER1(X|1) = "2") OR (BUFFER1(X|1) = "3") OR
   (BUFFER1(X|1) = "4") OR (BUFFER1(X|1) = "9") THEN
   WRITE ("CARD 80 HAS INVALID EDU LEVEL COLUMN ", X+1);
FOR X := 0 UNTIL 65 DO IF ((BUFFER2(X|1) = "1") OR
   (BUFFER2(X|1) = "2") OR (BUFFER2(X|1) = "3") OR
   (BUFFER2(X|1) = "4") OR (BUFFER2(X|1) = "9")) THEN
```

```
   WRITE ("CARD 805 HAS INVALID EDU LEVEL COLUMN ", X+1);
GO TO TOP;
THATSALL: WRITE ("END RUN");
END.
%EOF
```

CASE NUMBER 200 D2CARD PRINTOUT

```
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    1    1
1    2    3
1    1    1
2    2    2
2    2    2
2    2    2
2    2    2
2    2    2
2    2    2
1    2    2
3    3    3

2    2    2
3    3    3
4    4    4
3    3    3
2    2    2
2    2    2
4    4    4
3    3    3
2    2    2
2    2    2
1    2    2
2    3    3
2    2    2
3    3    3
3    3    3
3    3    3
2    2    2
2    2    2
2    2    2
4    4    4
4    4    4
4    4    4
```

```
//HUBER7 JOB (2089,0678,YS42),'HUBER,E.W.',TIME=4
// EXEC FORTCLG,REGION=160K
//FORT.SYSIN DD *
C     MULTIVARIATE ANALYSIS OF VARIANCE.  A  COOLEY-LOHNES ROUTINE
C     WHICH HAS BEEN MODIFIED BY E. W. HUBER FOR THE NAVAL POSTGRADUATE
C     SCHOOL IBM 360/67 COMPUTER SYSTEM.  CHANGES INCLUDE THE USE OF
C     STANDARD IMSL DOUBLE-PRECISION MATRIX INVERSION AND DETERMINANT
C     CALCULATIONS FOR THOSE SITUATIONS WHERE THE INPUT MATRIX IS VERY
C     CLOSE TO SINGULARITY, AND F-DISTRIBUTION VALUES ARE CALCULATED
C     AND PRINTED WITH EACH ASSOCIATED TEST.
C
C       THIS PROGRAM COMPUTES MANOVA TESTS OF H1 (EQUALITY OF DISPERSION)
C     AND H2 (EQUALITY OF CENTROIDS), UNIVARIATE F-RATIOS FOR MEANS,
C     SELECTED SAMPLE STATISTICS, AND THE W (POOLED WITHIN-GROUP SSCP)
C     AND T (TOTAL SAMPLE SSCP) MATRICES REQUIRED FOR THE DISCRIMINANT
C     ANALYSIS PROGRAM.  THESE MATRICES ARE PUNCHED IN UPPER-TRIANGULAR
C     FORM.  THE PROGRAM WILL PROCESS UP TO 50 VARIABLES AND ANY NUMBER
C     OF GROUPS.
C
C       INPUT
C
C     1) FIRST TEN CARDS OF THE DATA DECK DESCRIBE THE PROBLEM IN A TEXT
C        WHICH WILL BE REPRODUCED ON THE OUTPUT.
C     2) CONTROL CARD (CARD11)
C        COLS 1-2    M = NUMBER OF VARIABLES
C        COLS 3-5    KG = NUMBER OF GROUPS
C     3) EACH GROUP OF SCORE CARDS IS PRECEDED BY A CARD GIVING
C        NG = NUMBER OF SUBJECTS IN THE GROUP (COLS 1-5).
C        THUS, SUBJECTS MUST BE SORTED INTO GROUPS AND THE GROUPS COUNTED
C        BEFORE MANOVA CAN BE RUN.
C
C     PUNCHED OUTPUT IS ALL TO FORMAT (10X,5E14.7/10X,5E14.7), AND IS:
C
C     1) GROUP MEANS, FOLLOWED BY GRAND MEANS.
C     2) T MATRIX (TOTAL SAMPLE DEVIATION SSCP MATRIX).
C     3) W MATRIX (POOLED WITHIN-GROUPS DEVIATION SSCP MATRIX).
C     4) D INVERSE (INVERSE OF POOLED-SAMPLES DISPERSION ESTIMATE).
C
C
      DIMENSION TITLE(20), A(50,50), B(50,50), C(50,50), D(50,50),
     2  T(50), U(50), V(50), W(50), X(50), PVT1(50), PVT2(50)
      REAL*8 Q(50,50), QA(50,50), IQP(50), QE(50), DQ1, DQ2, DQ3, DQ4,
     2  QWORK(2700)
C
     1 WRITE (6,2)
     2 FORMAT (1H1,25X,40HMANOVA. A MODIFIED COOLEY-LOHNES PROGRAM)
       DO 3 J = 1, 10
       READ (5,4) (TITLE(K), K = 1, 20)
```

```
    4 FORMAT (20A4)
    3 WRITE (6,81)  (TITLE(K), K = 1, 20)
   81 FORMAT (26X,20A4)
      READ (5,5)  M, KG
    5 FORMAT (I2,I3)
      EM = M
      EKG = KG
      EK = KG
      WRITE (6,6)  M, KG
    6 FORMAT (14HOANALYSIS FOR I3,15H VARIABLES AND I4,7H GROUPS)
      WRITE (6,9)
    9 FORMAT (1HO, 30(4H----))
      DO 7  J = 1, M
      T(J) = 0.0
      DO 7  K = 1, M
      B(J,K) = 0.0
    7 C(J,K) = 0.0
      HILOGS = 0.0
      GAIS = 0.0
      FAIS = 0.0
      N = 0
C
      DO 19  IG = 1, KG
      READ (5,8)  NG
    8 FORMAT (I5)
      ENG = NG
      N = N + NG
      WRITE (6,9)
      WRITE (6,10)  IG, NG
   10 FORMAT (7HOGROUP I3,8H,  NG = I6)
      DO 11  J = 1, M
      U(J) = 0.0
      DO 11  K = 1, M
   11 A(J,K) = 0.0
      DO 12  NS = 1, NG
      READ (5,75)  (V(J), J = 1, M)
C  CHANGE FOLLOWING FORMAT STATEMENT TO MATCH INPUT DATA FORMAT:
   75 FORMAT (42F1.0)
C  THE FOLLOWING LOOP CONVERTS MISSING DATA TO THE NOT NEEDED OR
C  NOT USED CODE, I.E., A "1"
      DO 56  J = 1, M
      IF (V(J) - 5.0)  56, 55, 55
   55 V(J) = 1.0
   56 CONTINUE
C
      DO 12  J = 1, M
      U(J) = U(J) + V(J)
      T(J) = T(J) + V(J)
```

```
      DO 12  K = 1, M
      A(J,K) = A(J,K) + V(J) * V(K)
   12 C(J,K) = C(J,K) + V(J) * V(K)
      DO 13  J = 1, M
      DO 13  K = 1, M
      A(J,K) = A(J,K) - U(J) * U(K) / ENG
      B(J,K) = B(J,K) + A(J,K)
   13 A(J,K) = A(J,K) / (ENG - 1.0)
      DO 14  J = 1, M
      U(J) = U(J) / ENG
   14 W(J) = SQRT (A(J,J))
C
      WRITE (6,15)  IG
   15 FORMAT (17HOMEANS FOR GROUP I4)
      WRITE (6,16)  (J(J), J = 1, M)
   16 FORMAT (1X,10F12.3)
      WRITE (7,30)  IG, (U(J), J = 1, M)
   30 FORMAT (5H ROW I3,2X,5E14.7/(10X,5E14.7))
      WRITE (6,17)
   17 FORMAT (20HOSTANDARD DEVIATIONS)
      WRITE (6,16)  (W(J), J = 1, M)
      DO 71  J = 1, M
      DO 71  K = 1, M
   71 Q(J,K) = A(J,K)
      IDGT = 0
      CALL LUDATF (Q,QA,M,50,IDGT,DQ1,DQ2,IQP,QE,WQ,IER)
      DET = (DQ1) * (2.0 ** DQ2)
      WRITE (6,18)  DET
   18 FORMAT (26HODISPERSION DETERMINANT = E14.4)
      HILOGS = HILOGS + ((ENG - 1.0) * ALOG (DET))
      FAIS = FAIS + (1.0 / (ENG - 1.0))
      GAIS = GAIS + (1.0 / ((ENG - 1.0) ** 2))
   19 WRITE (6,9)
C
C
      EN = N
      DO 20  J = 1, M
      DO 20  K = 1, M
      A(J,K) = C(J,K) - T(J) * T(K) / EN
      D(J,K) = A(J,K)
   20 C(J,K) = B(J,K) / (EN - EKG)
      DO 21  J = 1, M
      T(J) = T(J) / EN
   21 U(J) = SQRT (C(J,J))
      WRITE (6,9)
      WRITE (6,22)
   22 FORMAT (23HOMEANS FOR TOTAL SAMPLE)
      WRITE (6,16)  (T(J), J = 1, M)
```

```
      KGT = KG + 1
      WRITE (7,30)  KGT, (T(J), J = 1, M)
      WRITE (6,23)
   23 FORMAT (35HOPOOLED-SAMPLES STANDARD DEVIATIONS)
      WRITE (6,16)  (U(J), J = 1, M)
      WRITE (6,9)
      WRITE (6,9)
      WRITE (6,38)
   38 FORMAT (9HOT MATRIX)
      DO 34  J = 1, M
      WRITE (6,30)  J, (A(J,K), K = J, M)
   34 WRITE (7,30)  J, (A(J,K), K = J, M)
      WRITE (6,9)
      DO 35  J = 1, M
      DO 35  K = 1, M
   35 A(J,K) = A(J,K) - B(J,K)
C
C     A IS NOW THE A (AMONG-GROUPS SSCP) MATRIX.  B IS NOW THE W
C  (WITHIN-GROUPS SSCP) MATRIX.  C IS NOW THE POOLED-GROUPS
C  DISPERSION ESTIMATE.
C
      WRITE (6,28)
   28 FORMAT (9HOA MATRIX)
      DO 29  J = 1, M
   29 WRITE (6,30)  J, (A(J,K), K = J, M)
      WRITE (6,9)
C
      WRITE (6,31)
   31 FORMAT (9HOW MATRIX)
      DO 32  J = 1, M
      WRITE (6,30)  J, (B(J,K), K = J, M)
   32 WRITE (7,30)  J, (B(J,K), K = J, M)
      WRITE (6,9)
C
      DO 72  J = 1, M
      DO 72  K = 1, M
   72 Q(J,K) = C(J,K)
      IDGT = 0
      CALL LUDATF (Q,QA,M,50,IDGT,DQ1,DQ2,IQP,QE,WQ,IER)
      DET = (DQ1) * (2.0 ** DQ2)
      DO 77  J = 1, M
      DO 77  K = 1, M
   77 Q(J,K) = C(J,K)
      IDGT = 0
      CALL LINV2F (Q,M,50,QA,IDGT,QWORK,IER)
      DO 76  J = 1, M
      DO 76  K = 1, M
   76 C(J,K) = QA(J,K)
```

```
      DO 33  J = 1, M
   33 WRITE (7,30)  J, (C(J,K), K = J, M)
C
      WRITE (6,18)  DET
      HILOG = (EN - EK) * ALOG (DET)
      XMM = HILOG - HILOGS
      F1 = 0.5 * (EK - 1.0) * EM * (EM + 1.0)
      A1A = (FA1S - (1.0 / (EN - EK))) * ((2.0 * (EM * EM)) + (3.0 *
     C    EM) - 1.0)
      A1 = A1A / 16.0 * (EK - 1.0) * (EM + 1.0))
      A2 = (GA1S - (1.0 / (EN - EK) ** 2)) * ((EM - 1.0) * (EM + 2.0))
     C  / (6.0 * (EK - 1.0))
      DIF = A2 - A1 * A1
      IF (DIF)  24, 24, 25
   24 F2 = (F1 + 2.0) / (A1 * A1 - A2)
      B1 = F2 / (1.0 - A1 + (2.0 / F2))
      F = (F2 * XMM) / (F1 * (B1 - XMM))
      GO TO 45
   25 F2 = (F1 + 2.0) / DIF
      B1 = F1 / (1.0 - A1 - (F1 / F2))
      F = XMM / B1
   45 NDF1 = F1
      NDF2 = F2
      WRITE (6,26)  XMM, F
   26 FORMAT (47HOFOR TEST OF H1 (EQUALITY OF DISPERSIONS), M = F10.3,
     C   9H AND F = F10.3)
      WRITE (6,27)  NDF1, NDF2
   27 FORMAT (15HOFOR F, NDF1 = I3, 12H AND NDF2 = I9)
      CALL MDFD (F,NDF1,NDF2,PROB,IER)
      WRITE (6,80)  PROB
   80 FORMAT (58HOFOR F-TEST, LEFT HAND AREA UNDER CURVE FOR GIVEN NDF-S
     C = F6.4)
      WRITE (6,9)
C
      N1 = EKG - 1.0
      N2 = EN - EKG
      WRITE (6,9)
      WRITE (6,40)  N1, N2
   40 FORMAT (34HOUNIVARIATE F-RATIOS, WITH NDF1 = I3,12H AND NDF2 = I6)
      WRITE (6,9)
      WRITE (6,41)
   41 FORMAT (95HOVARIABLE  AMONG MEAN SQ      WITHIN MEAN SQ      F-RATIO
     C     F-SIGNIFICANCE LEVEL      ETA SQUARE)
      DO 42  J = 1, M
      ETASQ = A(J,J) / (A(J,J) + B(J,J))
      AMS = A(J,J) / (EKG - 1.0)
      WMS = B(J,J) / (EN - EKG)
      F = AMS / WMS
```

```
      CALL MDFD (F,N1,N2,PROB,IER)
      PROB = 1.0 - PROB
   42 WRITE (6,43)  J, AMS, WMS, F, PROB, ETASQ
   43 FORMAT (3X,I3,4X,F10.3,10X,F10.3,8X,F7.3,14X,F6.4,12X,F6.4)
      WRITE (6,9)
C
      DO 73  J = 1, M
      DO 73  K = 1, M
   73 Q(J,K) = B(J,K)
      IDGT = 0
      CALL LUDATF (Q,QA,M,50,IDGT,DQ1,DQ2,IQP,QE,WQ,IER)
      DQ1 = DLOG(DQ1)
      DQ2 = DQ2 * DLOG(2.0D0)
C   DQ1*2.0**DQ2 = DETW WHICH IS THE DETERMINANT OF THE
C   POOLED-SAMPLES DEVIATION SSCP MATRIX, W.
      DO 74  J = 1, M
      DO 74  K = 1, M
   74 Q(J,K) = D(J,K)
      IDGT = 0
      CALL LUDATF (Q,QA,M,50,IDGT,DQ3,DQ4,IQP,QE,WQ,IER)
      DQ3 = DLOG(DQ3)
      DQ4 = DQ4 * DLOG(2.0D0)
C   DQ3*2.0**DQ4 = DETT WHICH IS THE DETERMINANT OF THE
C   TOTAL SAMPLE DEVIATION SSCP MATRIX, T.
      XL = DEXP(DQ1 + DQ2 - DQ3 - DQ4)
      YL = 1.0 - XL
      WRITE (6,9)
      WRITE (6,46)  XL, YL
   46 FORMAT (16HOWILKS LAMBDA =  F7.4,47H   GENERALIZED CORRELATION RAT
     1IO, ETA SQUARE = F7.4)
      IF (M - 2)  47, 47, 49
   47 IF (KG - 3)  48, 48, 49
   48 YL = XL
      F1 = 2.0
      F2 = EN - 3.0
      GO TO 50
   49 SL = SQRT (((EM * EM) * ((EKG - 1.0) ** 2) - 4.0) / ((EM * EM) +
     2  ((EKG - 1.0) ** 2) - 5.0))
      YL = XL ** (1.0 / SL)
      PL = (EN - 1.0) - ((EM + EKG) / 2.0)
      QL = - ((EM * (EKG - 1.0)) - 2.0) / 4.0
      RL = (EM * (EKG - 1.0)) / 2.0
      F1 = 2.0 * RL
      F2 = (PL * SL) + (2.0 * QL)
   50 N1 = F1
      N2 = F2
      F = ((1.0 - YL) / YL) * (F2 / F1)
      WRITE (6,51)  F
```

```
   51 FORMAT (43HOF-RATIO FOR H2, OVERALL DISCRIMINATION, = F10.3)
      WRITE (6,27)  N1, N2
      CALL MDFD (F,N1,N2,PROB,IER)
      WRITE (6,80)  PROB
      WRITE (6,9)
      WRITE (6,9)
      WPITE (6,52)
   52 FORMAT (4HIEND)
      STOP
      END
//LINK.SYSLIB DD
//   DD
//   DD DSN=SYS3.IMSL.DP,DISP=SHR
//LINK.HUBER DD DSN=SYS3.IMSL.SP,DISP=SHR
//LINK.SYSIN DD *
 INCLUDE HUBER(MDFD)
//GO.FT06F001 DD SYSOUT=A
//GO.FT07F001 DD SYSOUT=B
//GO.SYSIN DD *
```

MANOVA. A MODIFIED COOLEY-LOHNES PROGRAM

THIS RUN TESTS THE NEEDED EDUCATIONAL LEVEL CODING DATA.

THE FIRST GROUP IS THE INTERVIEW INFORMATION.
THE SECOND GROUP IS THE DELPHI QUESTIONNAIRE.

ANALYSIS FOR 42 VARIABLES AND 2 GROUPS

GROUP 1, NG = 103

MEANS FOR GROUP 1

1.738	1.495	1.320	1.854	1.573	2.427	2.379	1.961	1.728	1.544
1.447	2.252	2.155	2.146	1.990	2.379	2.068	1.816	1.728	2.485
2.165	3.204	2.670	2.427	2.282	2.272	2.447	2.155	1.874	2.175
2.524	1.777	1.709	2.816	2.194	2.563	2.476	2.427	2.117	3.010
3.078	2.835								

STANDARD DEVIATIONS

0.804	0.803	0.675	0.954	0.892	1.151	1.147	1.019	0.952	0.751
0.710	0.871	1.127	0.994	0.975	1.077	0.993	0.916	0.888	1.328
1.197	0.890	1.232	1.234	1.175	1.173	1.210	1.073	1.054	1.124
1.110	1.154	0.966	0.978	1.121	1.218	1.187	1.117	1.140	1.043
1.064	1.299								

DISPERSION DETERMINANT = 0.2083E-23

GROUP 2, NG = 259

MEANS FOR GROUP 2

1.618	1.340	1.205	1.942	1.521	2.124	1.788	1.792	1.764	1.452
1.483	2.000	2.050	2.012	1.981	2.274	2.104	1.919	1.873	2.672
2.548	2.803	2.799	2.417	1.934	2.058	2.324	2.637	2.259	2.328
2.089	1.958	1.826	2.158	2.629	2.544	2.189	2.131	1.691	3.236
3.459	3.533								

STANDARD DEVIATIONS

0.775	0.677	0.564	0.831	0.784	0.911	0.879	0.855	0.886	0.694
0.701	0.787	0.868	0.847	0.814	0.801	0.793	0.781	0.770	0.847
0.885	0.809	0.960	0.896	0.772	0.826	0.851	0.830	0.772	0.770
0.934	0.882	0.819	0.841	0.894	0.894	0.923	0.947	0.852	0.728
0.605	0.586								

DISPERSION DETERMINANT = 0.4137E-22

MEANS FOR TOTAL SAMPLE

1.652	1.384	1.238	1.917	1.536	2.210	1.956	1.840	1.754	1.478
1.472	2.072	2.080	2.050	1.983	2.304	2.094	1.890	1.831	2.619
2.439	2.917	2.762	2.420	2.033	2.119	2.359	2.500	2.149	2.785
2.213	1.906	1.793	2.345	2.506	2.550	2.271	2.215	1.812	3.171
3.351	3.334								

POOLED-SAMPLES STANDARD DEVIATIONS

0.784	0.715	0.598	0.868	0.816	0.985	0.963	0.905	0.905	0.710
0.703	0.812	0.948	0.891	0.863	0.888	0.854	0.821	0.805	0.902
0.984	0.833	1.744	1.003	0.905	0.958	0.966	0.906	0.861	0.885
0.987	0.967	0.864	0.882	0.964	0.997	1.005	0.998	0.943	0.829
0.763	0.851								

T MATRIX

ROW 1	0.2221438E 03	0.1343813E 03	0.9493384E 02	0.1195581E 03	0.3552490E 02	
	0.4245311E 02	0.6343111E 02	0.3281226E 02	0.2402222E 02	0.6215576E 01	
	0.4519531E 01	0.6504980E 02	0.1709399E 02	0.5026538E 02	0.5191162E 02	
	0.6528735E 02	0.4983447E 02	0.4907739E 02	0.4376807E 02	0.5596704E 02	
	0.3034277E 02	0.5558105E 01	0.4606641E 02	0.4290625E 02	0.4417700E 02	
	0.5096704E 02	0.4224878E 02	0.3100000E 02	0.3279565E 02	0.3685083E 02	
	0.9080127E 02	0.8716577E 02	0.8989526E 02	0.1005083E 03	0.5169629E 02	
	0.4626538E 02	0.5111060E 02	0.5514941E 02	0.5133154E 02	0.4158032E 02	
	0.3820459E 02	0.4611621E 02				
ROW 2	0.1856272E 03	0.1289780E 03	0.1195195E 03	0.3250830E 02	0.5681787E 02	
	0.6114380E 02	0.2327075E 02	0.2217407E 02	0.8572021E 01	0.5339844E 01	
	0.5401660E 02	0.2486475E 02	0.4700586E 02	0.4430395E 02	0.2476245E 02	
	0.5094482E 02	0.4335913E 02	0.4242285E 02	0.2298901E 02	0.1794775E 02	
	-0.1548047E 02	0.3002222E 02	0.3663550E 02	0.3939233E 02	0.4548901E 02	
	0.2908301E 02	0.2550000E 02	0.3626563E 02	0.2256504E 02	0.6443384E 02	
	0.4705542E 02	0.5579858E 02	0.7000293E 02	0.4173218E 02	0.7588623E 01	
	0.2637036E 02	0.4504980E 02	0.2111060E 02	0.1619360E 02	0.1823486E 02	
	0.1953882E 02					
ROW 3	0.1295591E 03	0.8412720E 02	0.3591162E 02	0.3494482E 02	0.5080127E 02	
	0.1677905E 02	0.2114380E 02	0.9900635E 01	0.9375732E 01	0.4782324E 02	
	0.2511060E 02	0.3472388E 02	0.3342554E 02	0.1486743E 02	0.2892285E 02	
	0.3250293E 02	0.3349219E 02	0.1778467E 02	0.2422655E 02	-0.9872803E 01	
	0.1443115E 02	0.2688965E 02	0.3214941E 02	0.3978467E 02	0.2211621E 02	
	0.1200000E 03	0.2217139E 02	0.1853052E 02	0.4170729E 02	0.4207739E 02	
	0.4781787E 02	0.4830396E 02	0.3552490E 02	-0.2761230E 00	0.1571826E 02	
	0.2669373E 02	0.1215479E 02	0.1827075E 02	0.1082886E 02	0.1625415E 02	
ROW 4	0.2715129E 03	0.4807739E 02	0.4829858E 02	0.4467407E 02	0.3719360E 02	
	0.3462451E 02	0.1337158E 01	0.2171387E 01	0.8215479E 02	0.2840332E 02	
	0.3349194E 02	0.3250293E 02	0.4411621E 02	0.5361787E 02	0.3968530E 02	
	0.4094482E 02	0.3556372E 02	0.3617700E 02	0.9513916E 01	0.6187305E 02	
	0.5559692E 02	0.4499463E 02	0.6056372E 02	0.3077368E 02	0.4300000E 02	
	0.3747534E 02	0.4153613E 02	0.4038135E 02	0.7118237E 02	0.8878467E 02	
	0.8535913E 02	0.7216577E 02	0.3049194E 02	0.3812158E 02	0.5846411E 02	
	0.5436475E 02	0.4913818E 02	0.5452490E 02	0.6302783E 02		
ROW 5	0.2400332E 03	0.1492708E 03	0.1225747E 03	0.1040830E 03	0.1066963E 03	
	0.6328735E 02	0.6235913E 02	0.4306641E 02	0.1054587E 03	0.7635376E 02	
	0.7521558E 02	0.5604980E 02	0.5177905E 02	0.3443652E 02	0.3169067E 02	
	0.5935581E 02	0.8679028E 02	0.2807739E 02	0.1020085E 03	0.9454150E 02	
	0.7656909E 02	0.7095581E 02	0.8633154E 02	0.8800000E 02	0.7406079E 02	
	0.9180127E 02	-0.2026514E 02	-0.1778809E 01	0.1193604E 01	0.1201123E 02	
	-0.3071777E 01	0.9353760E 01	-0.5192871E 00	-0.1080103E 02	0.9442139E 01	
	0.4277368E 02	0.2493945E 02	0.3215479E 02			

```
ROW   6   0.3560444E 03 0.2943591E 03 0.2381770E 03 0.2116853E 03 0.1296797E 03
          0.1320996E 03 0.5454150E 02 0.1509116E 03 0.1292212E 03 0.1212598E 03
          0.8890625E 02 0.1178621E 03 0.8339795E 02 0.8880664E 02 0.1209724E 03
          0.1486189E 03 0.7229858E 02 0.2060554E 03 0.1900886E 03 0.1574807E 03
          0.1679724E 03 0.1787073E 03 0.1440000E 03 0.1326631E 03 0.1333757E 03
         -0.1616553E 02-0.3286182E 02-0.2925391E 02 0.2175708E 02-0.2341968E 02
         -0.1277881E 02-0.3157446E 02-0.2537549E 02 0.1276367E 01 0.8398364E 02
          0.6133716E 02 0.6359692E 02
ROW   7   0.3592930E 03 0.2144365E 03 0.1660664E 03 0.1346465E 03 0.1255581E 03
          0.5814941E 02 0.1392820E 03 0.1067957E 03 0.9973486E 02 0.8386206E 02
          0.1115029E 03 0.7123218E 02 0.7530396E 02 0.1129006E 03 0.1330278E 03
          0.7967407E 02 0.1621990E 03 0.1747183E 03 0.1595305E 03 0.1669006E 03
          0.1617461E 03 0.1150000E 03 0.1123870E 03 0.1225525E 03 0.1040332E 02
         -0.2150269E 02-0.3231470E 02 0.3452490E 02-0.2391138E 02-0.1520435E 02
         -0.1466846E 02-0.1155225E 02 0.1999463E 02 0.6174048E 02 0.4461328E 02
          0.4234814E 02
ROW   8   0.2967073E 03 0.2487405E 03 0.1517183E 03 0.1593979E 03 0.3416577E 02
          0.1176465E 03 0.8488403E 02 0.8603882E 02 0.6362451E 02 0.9344775E 02
          0.7659131E 02 0.7522656E 02 0.8788965E 02 0.1244753E 03 0.6619360E 02
          0.1632212E 03 0.1623538E 03 0.1419229E 03 0.1288896E 03 0.1438289E 03
          0.1300000E 03 0.1256521E 03 0.1465029E 03 0.1233716E 02 0.7552490E 01
          0.7983643E 01 0.2902783E 02 0.1320557E 01 0.6884033E 01 0.2701660E 01
          0.7497314E 01 0.2110498E 02 0.6793384E 02 0.3434814E 02 0.4238696E 02
ROW   9   0.2951189E 03 0.1675332E 03 0.1660415E 03 0.3039233E 02 0.1081299E 03
          0.6142554E 02 0.6152490E 02 0.3904443E 02 0.6135913E 02 0.4916577E 02
          0.5500293E 02 0.6207202E 02 0.1160913E 03 0.4662451E 02 0.1278564E 03
          0.1223704E 03 0.1229504E 03 0.1075720E 03 0.1129614E 03 0.1275000E 03
          0.1262764E 03 0.1443232E 03-0.8068848E 01 0.9641113E 01 0.1556079E 02
          0.1973218E 02 0.1399194E 02-0.5074463E 01-0.9060059E 00-0.4822998E 01
          0.2728198E 02 0.6224316E 02 0.3822388E 02 0.4374878E 02
ROW  10   0.1823232E 03 0.1432791E 03 0.1657471E 02 0.7714111E 02 0.4639795E 02
          0.4186743E 02 0.3243115E 02 0.4375146E 02 0.4211621E 02 0.4415210E 02
          0.3995044E 02 0.6701392E 02 0.3833716E 02 0.7609961E 02 0.8135913E 02
          0.9626538E 02 0.7745044E 02 0.8387305E 02 0.7050000E 02 0.8319360E 02
          0.9177637E 02-0.1079834E 02 0.1248779E 01 0.2842773E 01 0.1226245E 02
          0.5444336E 00-0.2610205E 02 0.3165771E 01 0.6723877E 01 0.1749731E 02
          0.2837036E 02 0.1030664E 02 0.6174072E 01
ROW  11   0.1782239E 03 0.1671826E 02 0.7830127E 02 0.4549731E 02 0.4783447E 02
          0.3703882E 02 0.4593945E 02 0.5089526E 02 0.5781494E 02 0.4718799E 02
          0.7289233E 02 0.4017139E 02 0.7462451E 02 0.8419897E 02 0.9233154E 02
          0.7968799E 02 0.7659131E 02 0.8050000E 02 0.9149194E 02 0.9534546E 02
         -0.1737280E 02 0.4060791E 01 0.4282227E 00 0.8953125E 01 0.1155542E 02
         -0.1500269E 02 0.6707275E 01 0.1115479E 02 0.1912158E 02 0.3671289E 02
          0.2400830E 02 0.2884277E 02
ROW  12   0.2421328E 03 0.1099172E 03 0.7270728E 02 0.7443115E 02 0.6209961E 02
          0.6455811E 02 0.4687305E 02 0.4738135E 02 0.7691162E 02 0.8158032E 02
          0.3815479E 02 0.7117700E 02 0.6308301E 02 0.5913818E 02 0.6091162E 02
          0.7766309E 02 0.5400000E 02 0.5912158E 02 0.7360229E 02 0.8446973E 02
          0.7244214E 02 0.5338696E 02 0.9802222E 02 0.4685645E 02 0.5270728E 02
          0.2396143E 02 0.4239795E 02 0.6288403E 02 0.5554712E 02 0.6087866E 02
          0.5530957E 02
ROW  13   0.3246770E 03 0.1295581E 03 0.1234807E 03 0.5918799E 02 0.9627637E 02
          0.7120459E 02 0.7188696E 02 0.9905542E 02 0.1842625E 03 0.8140332E 02
          0.1458896E 03 0.1308232E 03 0.1160388E 03 0.1165554E 03 0.1405857E 03
          0.1335000E 03 0.1316741E 03 0.1497488E 03-0.1316846E 02-0.3027612E 02
         -0.2291170E 02 0.1898633E 02 0.1133984E 02 0.7058105E 01-0.1185059E 02
         -0.4248535E 01-0.1555225E 02 0.9303320E 02 0.5782617E 02 0.7130664E 02
ROW  14   0.2871050E 03 0.2512986E 03 0.1555305E 03 0.1793096E 03 0.1569890E 03
          0.1640332E 03 0.1528621E 03 0.1260940E 03 0.5749194E 02 0.1892764E 03
          0.1384421E 03 0.1004033E 03 0.1008621E 03 0.1625361E 03 0.1280000E 03
          0.7531494E 02 0.9987866E 02 0.2217139E 02 0.2269067E 02 0.5729492E 01
          0.2378467E 02-0.1509937E 02 0.1610498E 02 0.4127197E 01 0.1512158E 02
         -0.6186523E 00 0.7791724E 02 0.6068530E 02 0.5798364E 02
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ROW 15	0.2679006E 03	0.1698232E 03	0.1865637E 03	0.1633372E 03	0.1679890E 03
	0.1617129E 03	0.1436355E 03	0.5150293E 02	0.1695747E 03	0.1295195E 03
	0.9219897E 02	0.9371289E 02	0.1551548E 03	0.1250000E 03	0.8389526E 02
	0.1127073E 03	0.1127637E 02	0.3043652E 02	0.1275708E 02	0.1507202E 02
	0.4033203E 01	0.2429858E 02	0.7624512E 01	0.1529297E 02	0.6873047E 01
	0.7602783E 02	0.7410498E 02	0.8200562E 02		
ROW 16	0.2845747E 03	0.1826687E 03	0.1421548E 03	0.1365361E 03	0.1749338E 03
	0.1066853E 03	0.5511621E 02	0.1451328E 03	0.1278123E 03	0.8835376E 02
	0.8893384E 02	0.1364973E 03	0.8400000E 02	0.6059131E 02	0.8370166E 02
	0.5460229E 02	0.9333154E 02	0.4679028E 02	0.5901660E 02	0.6392334E 01
	0.4553052E 02	0.3022119E 02	0.1929858E 02	0.3366309E 02	0.6316040E 02
	0.7840894E 02	0.8823218E 02			
ROW 17	0.2628066E 03	0.1857571E 03	0.1757295E 03	0.1689614E 03	0.1290664E 03
	0.4281787E 02	0.1769774E 03	0.1637239E 03	0.1208730E 03	0.1259614E 03
	0.1507903E 03	0.1170000E 03	0.9292822E 02	0.1173262E 03	0.2276807E 02
	0.2919360E 02	0.7044434E 01	0.2225977E 02	-0.1318774E 02	-0.5690430E 01
	-0.1520435E 02	0.2674072E 01	-0.2061304E 02	0.6417700E 02	0.6507202E 02
	0.7163550E 02				
ROW 18	0.2435803E 03	0.2152598E 03	0.1427515E 03	0.9956909E 02	0.2168530E 02
	0.1384973E 03	0.1277957E 03	0.8932617E 02	0.9775146E 02	0.1083647E 03
	0.1080000E 03	0.9296704E 02	0.1063813E 03	0.2250830E 02	0.2524316E 02
	0.1171289E 02	0.1681226E 02	0.8221191E 01	0.1989014E 01	-0.1171143E 01
	0.2261890E 02	-0.4513672E 01	0.4385083E 02	0.4603320E 02	0.5937036E 02
ROW 19	0.2347212E 03	0.1357461E 03	0.1087930E 03	0.2794482E 02	0.1325083E 03
	0.1206133E 03	0.8902222E 02	0.9724609E 02	0.1119063E 03	0.1155000E 03
	0.9709961E 02	0.1013564E 03	0.1097534E 02	0.2727075E 02	0.2036206E 02
	0.1706372E 02	0.2283716E 02	0.7533203E 01	0.1051392E 02	0.3214380E 02
	0.1154150E 02	0.5244775E 02	0.5640063E 02	0.6938965E 02	
ROW 20	0.2953923E 03	0.1516133E 03	0.6356372E 02	0.1782156E 03	0.1419448E 03
	0.9457471E 02	0.1003923E 03	0.1655581E 03	0.1550000E 03	0.1105857E 03
	0.1272654E 03	0.1935376E 02	0.5103882E 02	0.2040894E 02	0.2665210E 02
	0.3776245E 02	0.2086206E 02	-0.6408691E 00	0.5734863E 01	-0.9226074E 00
	0.1086355E 03	0.1094146E 03	0.1481272E 03		
ROW 21	0.3591631E 03	0.1141770E 03	0.1777737E 03	0.1672378E 03	0.1357295E 03
	0.1471133E 03	0.1719006E 03	0.1805000E 03	0.1522820E 03	0.1677598E 03
	-0.1582031E 02	0.1993384E 02	0.7942139E 01	0.1709692E 02	0.4662158E 02
	0.2559399E 02	-0.4418945E-01	0.2374048E 02	0.9867432E 01	0.1427681E 03
	0.1092183E 03	0.1408538E 03			
ROW 22	0.2615139E 03	0.9887305E 02	0.8659692E 02	0.8699463E 02	0.7956372E 02
	0.1067737E 03	0.6000000E 02	0.3947534E 02	0.6353613E 02	0.6738135E 02
	0.8182373E 01	0.1078467E 02	0.5535913E 02	0.3016577E 02	0.5649194E 02
	0.7412158E 02	0.7246411E 02	0.5936475E 02	0.8113818E 02	0.6952490E 02
	0.7402783E 02				
ROW 23	0.3935691E 03	0.3111106E 03	0.2128508E 03	0.2222156E 03	0.2878840E 03
	0.2130000E 03	0.1498289E 03	0.1884697E 03	0.1229297E 02	0.8922852E 01
	-0.4817627E 01	0.2869629E 02	-0.2852466E 02	0.8276367E 01	-0.1071802E 02
	-0.2446948E 02	-0.2115454E 02	0.1217295E 03	0.8717139E 02	0.8674609E 02
ROW 24	0.3621770E 03	0.2539614E 03	0.2629448E 03	0.2514146E 03	0.1740000E 03
	0.1503262E 03	0.1727515E 03	0.2066870E 02	0.1927637E 02	0.1491943E 01
	0.4951392E 02	-0.2883960E 02	-0.1557861E 01	0.8508301E 00	-0.2775122E 02
	-0.1044751E 02	0.9596704E 02	0.6467407E 02	0.7119360E 02	
ROW 25	0.3036023E 03	0.2745747E 03	0.2166907E 03	0.1030000E 03	0.1212100E 03
	0.1355857E 03	0.3244775E 02	0.2012720E 02	0.1748633E 02	0.7285645E 02
	-0.2066162E 01	-0.1259668E 02	0.2175146E 02	0.1341455E 02	0.2225415E 02
	0.5694482E 02	0.3679028E 02	0.3298901E 02		
ROW 26	0.3198923E 03	0.2235581E 03	0.1265000E 03	0.1385857E 03	0.1427654E 03
	0.2385376E 02	0.1603882E 02	0.1490894E 02	0.5815210E 02	-0.1473755E 02
	-0.2063794E 02	0.1035913E 02	0.3734863E 01	0.1107739E 02	0.6663550E 02
	0.4091455E 02	0.4362720E 02			
ROW 27	0.3373149E 03	0.1770000E 03	0.1396079E 03	0.1660112E 03	0.8348145E 01
	0.1120996E 02	-0.6066162E 01	0.3011060E 02	0.4281982E 01	0.2953613E 02
	0.2580664E 02	0.1498901E 02	0.2041992E 02	0.1077349E 03	0.8439233E 02
	0.9254712E 02				

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ROW  28    0.3125000E 03 0.2310000E 03 0.2065000E 03-0.2250000E 02 0.1000000E 01
          -0.5500000E 01-0.3500000E 01 0.4450000E 02 0.1150000E 02-0.5000000E 01
           0.2000000E 01-0.1500000E 02 0.1090000E 03 0.9150000E 02 0.1205000E 03
ROW  29    0.2779448E 03 0.1996355E 03-0.1048608E 02 0.2007202E 02 0.1818799E 02
           0.1635376E 02 0.6270166E 02 0.7314941E 01 0.4381348E 01 0.1336475E 02
          -0.4856201E 01 0.8075146E 02 0.7405542E 02 0.9795044E 02
ROW  30    0.2836936E 03 0.1909131E 02 0.3367407E 02 0.2133984E 02 0.3943384E 02
           0.4393115E 02 0.3337866E 02 0.2411621E 02 0.9806641E 01 0.2134814E 02
           0.8535913E 02 0.5886475E 02 0.7657202E 02
ROW  31    0.3646216E 03 0.2172322E 03 0.1899531E 03 0.2134116E 03 0.7407471E 02
           0.1156714E 03 0.1221548E 03 0.1254089E 03 0.1094641E 03 0.1581226E 02
           0.1698633E 02 0.6262451E 01
ROW  32    0.3388066E 03 0.2339558E 03 0.1807405E 03 0.9418799E 02 0.9669067E 02
           0.1042046E 03 0.8832617E 02 0.9661328E 02 0.3182324E 02 0.5192822E 02
           0.7336475E 02
ROW  33    0.2694614E 03 0.1778979E 03 0.1189146E 03 0.9122949E 02 0.1003040E 03
           0.9716040E 02 0.9691162E 02 0.3484546E 02 0.3831226E 02 0.5106909E 02
ROW  34    0.3118372E 03 0.6680957E 02 0.7428467E 02 0.9816040E 02 0.8106641E 02
           0.9848071E 02 0.4159131E 02 0.3814648E 02 0.2421826E 02
ROW  35    0.3484890E 03 0.1744006E 03 0.1584587E 03 0.1425691E 03 0.1253757E 03
           0.8065747E 02 0.1097986E 03 0.1408315E 03
ROW  36    0.3576050E 03 0.2391272E 03 0.1521216E 03 0.1833813E 03 0.8091724E 02
           0.8418530E 02 0.8048364E 02
ROW  37    0.3694697E 03 0.2608840E 03 0.2124089E 03 0.5021558E 02 0.5861890E 02
           0.6324316E 02
ROW  38    0.3651936E 03 0.1856521E 03 0.4864111E 02 0.6063550E 02 0.6592822E 02

ROW  39    0.3332266E 03 0.6364648E 02 0.6385645E 02 0.6372949E 02
ROW  40    0.2513813E 03 0.1522488E 03 0.1652764E 03
ROW  41    0.2204448E 03 0.2015498E 03
ROW  42    0.2965554E 03
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A MATRIX
ROW   1    0.1062988E 01 0.1375000E 01 0.1024551E 01-0.7766113E 00 0.4562988E 00
           0.2687256E 01 0.5230713E 01 0.1501465E 01-0.3217773E 00 0.8137207E 00
          -0.3188477E 00 0.2234131E 01 0.9304199E 00 0.1186523E 01 0.8471680E-01
           0.9248047E 00-0.3210449E 00-0.9152832E 00-0.1278564E 01-0.1649658E 01
          -0.3391846E 01 0.3547363E 01-0.1144775E 01 0.9008789E-01 0.3072998E 01
           0.1893555E 01 0.1082275E 01-0.4263916E 01-0.3406738E 01-0.1358154E 01
           0.3854004E 01-0.1600586E 01-0.1040039E 01 0.5816895E 01-0.3851807E 01
           0.1652832E 00 0.2536133E 01 0.2618896E 01 0.3764893E 01-0.1998535E 01
          -0.3379150E 01-0.6176758E 01
ROW   2    0.1779037E 01 0.1325394E 01-0.1004395E 01 0.5905304E 00 0.3476807E 01
           0.6766846E 01 0.1942383E 01-0.4162598E 00 0.1052856E 01-0.4125214E 00
           0.2890381E 01 0.1203613E 01 0.1534912E 01 0.1096191E 00 0.1196533E 01
          -0.4157715E 00-0.1184082E 01-0.1653809E 01-0.2134277E 01-0.4387939E 01
           0.4589111E 01-0.1480713E 01 0.1166992E 00 0.3975342E 01 0.2449463E 01
           0.1400146E 01-0.5516113E 01-0.4407227E 01-0.1756836E 01 0.4986084E 01
          -0.2070557E 01-0.1345703E 01 0.7525391E 01-0.4982910E 01 0.2141113E 00
           0.3280762E 01 0.3388184E 01 0.4870605E 01-0.2585449E 01-0.4371826E 01
          -0.7990723E 01
ROW   3    0.9873657E 00-0.7482147E 00 0.4397736E 00 0.2589844E 01 0.5041504E 01
           0.1447021E 01-0.3097534E 00 0.7842712E 00-0.3073120E 00 0.2153320E 01
           0.8967285E 00 0.1143311E 01 0.8178711E-01 0.8913574E 00-0.3095703E 00
          -0.8818207E 00-0.1231873E 01-0.1590088E 01-0.3269043E 01 0.3418701E 01
          -0.1103271E 01 0.8691406E-01 0.2961670E 01 0.1824707E 01 0.1042969E 01
          -0.4109619E 01-0.3283463E 01-0.1308838E 01 0.3714600E 01-0.1542526E 01
          -0.1002289E 01 0.5606445E 01-0.3712402E 01 0.1596680E 00 0.2444092E 01
           0.2524170E 01 0.3628418E 01-0.1926514E 01-0.3256836E 01-0.5953369E 01
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ROW   4   0.5668945E 00-0.3334961E 00-0.1962891E 01-0.3820313E 01-0.1096680E 01
          0.2348633E 00-0.5944824E 00 0.2326660E 00-0.1631836E 01-0.6799316E 00
         -0.8664551E 00-0.6201172E-01-0.6755371E 00 0.2346191E 00 0.6682129E 00
          0.9335938E 00 0.1204590E 01 0.2477051E 01-0.2590820E 01 0.8359375E 00
         -0.6591797E-01-0.2244385E 01-0.1383057E 01-0.7905273E 00 0.3113525E 01
          0.2488037E 01 0.9916992E 00-0.2815186E 01 0.1168701E 01 0.7595215E 00
         -0.4248779E 01 0.2812744E 01-0.1210938E 00-0.1852295E 01-0.1913086E 01
         -0.2750000E 01 0.1459473E 01 0.2467529E 01 0.4510986E 01
ROW   5   0.1960144E 00 0.1154053E 01 0.2246338E 01 0.6447754E 00-0.1381836E 00
          0.3493958E 00-0.1370697E 00 0.9594727E 00 0.3996582E 00 0.5092773E 00
          0.3637695E-01 0.3969727E 00-0.1381836E 00-0.3930664E 00-0.5493164E 00
         -0.7087402E 00-0.1456543E 01 0.1523193E 01-0.4914551E 00 0.3857422E-01
          0.1319580E 01 0.8129883E 00 0.4645996E 00-0.1831299E 01-0.1463379E 01
         -0.5832520E 00 0.1655029E 01-0.6872559E 00-0.4467773E 00 0.2498291E 01
         -0.1654297E 01 0.7104492E-01 0.1089111E 01 0.1124756E 01 0.1616943E 01
         -0.8583984E 00-0.1451172E 01-0.2652832E 01
ROW   6   0.6793945E 01 0.1322388E 02 0.3796387E 01-0.8127441E 00 0.2057373E 01
         -0.8061523E 00 0.5648193E 01 0.2352295E 01 0.2999512E 01 0.2145996E 00
          0.2338379E 01-0.8120117E 00-0.2313477E 01-0.3231934E 01-0.4170410E 01
         -0.8574951E 01 0.8968018E 01-0.2893799E 01 0.2280273E 00 0.7768311E 01
          0.4786621E 01 0.2735840E 01-0.1077930E 02-0.8612549E 01-0.3433350E 01
          0.9743896E 01-0.4046387E 01-0.2629639E 01 0.1470581E 02-0.9737305E 01
          0.4184570E 00 0.6411377E 01 0.6621094E 01 0.9518066E 01-0.5052734E 01
         -0.8542969E 01-0.1561523E 02
ROW   7   0.2573926E 02 0.7388916E 01-0.1582031E 01 0.4004639E 01-0.1569092E 01
          0.1099390E 02 0.4579346E 01 0.5837891E 01 0.4179688E 00 0.4551514E 01
         -0.1580322E 01-0.4502930E 01-0.6290527E 01-0.8117432E 01-0.1668994E 02
          0.1745557E 02-0.5632813E 01 0.4438477E 00 0.1512085E 02 0.9316895E 01
          0.5325439E 01-0.2098071E 02-0.1676343E 02-0.6682373E 01 0.1896558E 02
         -0.7875732E 01-0.5118164E 01 0.2862378E 02-0.1895264E 02 0.8144531E 00
          0.1247925E 02 0.1288770E 02 0.1852637E 02-0.9834961E 01-0.1662817E 02
         -0.3039404E 02
ROW   8   0.2121094E 01-0.4543457E 00 0.1149414E 01-0.4506836E 00 0.3156006E 01
          0.1314453E 01 0.1675781E 01 0.1198730E 00 0.1306641E 01-0.4536133E 00
         -0.1292725E 01-0.1806152E 01-0.2330322E 01-0.4791260E 01 0.5010986E 01
         -0.1616943E 01 0.1274414E 00 0.4340820E 01 0.2674805E 01 0.1528564E 01
         -0.6023193E 01-0.4812500E 01-0.1918457E 01 0.5444580E 01-0.2261230E 01
         -0.1469238E 01 0.8217285E 01-0.5440918E 01 0.2338867E 00 0.3582275E 01
          0.3699707E 01 0.5318359E 01-0.2823486E 01-0.4773682E 01-0.8725098E 01
ROW   9   0.9716797E-01-0.2463379E 00 0.9643555E-01-0.6757813E 00-0.2817383E 00
         -0.3591309E 00-0.2587891E-01-0.2797852E 00 0.9692383E-01 0.2766113E 00
          0.3864746E 00 0.4990234E 00 0.1025635E 01-0.1072754E 01 0.3461914E 00
         -0.2734375E-01-0.9294434E 00-0.5727539E 00-0.3273926E 00 0.1289307E 01
          0.1030273E 01 0.4104004E 00-0.1165527E 01 0.4838867E 00 0.3144531E 00
         -0.1759277E 01 0.1164795E 01-0.5004883E-01-0.7673340E 00-0.7919922E 00
         -0.1138672E 01 0.6042480E 00 0.1021973E 01 0.1868164E 01
ROW  10   0.6231079E 00-0.2442017E 00 0.1710449E 01 0.7126465E 00 0.9082031E 00
          0.6494141E-01 0.7082520E 00-0.2460938E 00-0.7006836E 00-0.9787598E 00
         -0.1262939E 01-0.2596924E 01 0.2715576E 01-0.8764648E 00 0.6884766E-01
          0.2352539E 01 0.1449463E 01 0.8283691E 00-0.3264404E 01-0.2608154E 01
         -0.1039795E 01 0.2950684E 01-0.1225342E 01-0.7963867E 00 0.4453125E 01
         -0.2948730E 01 0.1267090E 00 0.1941406E 01 0.2004883E 01 0.2882324E 01
         -0.1530273E 01-0.2587402E 01-0.4729248E 01
ROW  11   0.9568787E-01-0.6701660E 00-0.2792969E 00-0.3559570E 00-0.2563477E-01
         -0.2775879E 00 0.9619141E-01 0.2744141E 00 0.3833008E 00 0.4948730E 00
          0.1017090E 01-0.1064209E 01 0.3432617E 00-0.2709961E-01-0.9218750E 00
         -0.5681152E 00-0.3247070E 00 0.1278564E 01 0.1021729E 01 0.4072266E 00
         -0.1156006E 01 0.4797363E 00 0.3118896E 00-0.1744873E 01 0.1155029E 01
         -0.4980469E-01-0.7609863E 00-0.7856445E 00-0.1129395E 01 0.5993652E 00
          0.1013428E 01 0.1852783E 01
ROW  12   0.4695801E 01 0.1956055E 01 0.2493652E 01 0.1787109E 00 0.1944092E 01
         -0.6750488E 00-0.1923096E 01-0.2686768E 01-0.3467041E 01-0.7128418E 01
          0.7455566E 01-0.2405762E 01 0.1896973E 00 0.6458496E 01 0.3979492E 01
          0.2274658E 01-0.8961182E 01-0.7160156E 01-0.2854248E 01 0.8100586E 01
         -0.3363770E 01-0.2186035E 01 0.1222607E 02-0.8095215E 01 0.3479004E 00
          0.5330322E 01 0.5504639E 01 0.7913086E 01-0.4200684E 01-0.7102051E 01
         -0.1298193E 02
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ROW  13   0.8146973E 00 0.1038574E 01 0.7421875E-01 0.8095703E 00-0.2814941E 00
         -0.8012695E 00-0.1119141E 01-0.1444336E 01-0.2969727E 01 0.3105225E 01
         -0.1002197E 01 0.7861328E-01 0.2689941E 01 0.1657471E 01 0.9472656E 00
         -0.3732910E 01-0.2982666E 01-0.1188965E 01 0.3374023E 01-0.1401367E 01
         -0.9108887E 00 0.5092529E 01-0.3372070E 01 0.1447754E 00 0.2220215E 01
          0.2292725E 01 0.3296143E 01-0.1749756E 01-0.2958252E 01-0.5407715E 01
ROW  14   0.1323975E 01 0.9472656E-01 0.1032227E 01-0.3586426E 00-0.1021484E 01
         -0.1427002E 01-0.1841064E 01-0.3785645E 01 0.3959229E 01-0.1277832E 01
          0.1005859E 00 0.3429443E 01 0.2113281E 01 0.1208008E 01-0.4758789E 01
         -0.3802490E 01-0.1515625E 01 0.4301758E 01-0.1786377E 01-0.1160889E 01
          0.6492432E 01-0.4298828E 01 0.1845703E 00 0.2830322E 01 0.2923096E 01
          0.4202148E 01-0.2230713E 01-0.3771484E 01-0.6893799E 01
ROW  15   0.6591797E-02 0.7373047E-01-0.2563477E-01-0.7324219E-01-0.1022949E 00
         -0.1318359E 00-0.2712402E 00 0.2832031E 00-0.9155273E-01 0.7324219E-02
          0.2453613E 00 0.1511230E 00 0.8618164E-01-0.3410645E 00-0.2722168E 00
         -0.1086426E 00 0.3078613E 00-0.1281738E 00-0.8300781E-01 0.4645996E 00
         -0.3078613E 00 0.1318359E-01 0.2026367E 00 0.2092285E 00 0.3005371E 00
         -0.1596680E 00-0.2702637E 00-0.4936523E 00
ROW  16   0.8046875E 00-0.2795410E 00-0.7963867E 00-0.1112305E 01-0.1435547E 01
         -0.2951416E 01 0.3086914E 01-0.9960938E 00 0.7836914E-01 0.2673828E 01
          0.1647461E 01 0.9414063E 00-0.3710449E 01-0.2964355E 01-0.1181885E 01
          0.3353760E 01-0.1392822E 01-0.9050293E 00 0.5061523E 01-0.3351563E 01
          0.1437988E 00 0.2206787E 01 0.2279053E 01 0.3275879E 01-0.1739258E 01
         -0.2940430E 01-0.5374756E 01
ROW  17   0.9667969E-01 0.2763672E 00 0.3862305E 00 0.4982910E 00 0.1024658E 01
         -0.1071777E 01 0.3457031E 00-0.2734375E-01-0.9284668E 00-0.5722656E 00
         -0.3271484E 00 0.1287842E 01 0.1029053E 01 0.4101563E 00-0.1164795E 01
          0.4836426E 00 0.3142090E 00-0.1757813E 01 0.1163574E 01-0.5004883E-01
         -0.7663574E 00-0.7915039E 00-0.1137451E 01 0.6037598E 00 0.1020752E 01
          0.1865967E 01
ROW  18   0.7875977E 00 0.1100342E 01 0.1419922E 01 0.2919434E 01-0.3053711E 01
          0.9851074E 00-0.7788086E-01-0.2645264E 01-0.1630127E 01-0.9318848E 00
          0.3669922E 01 0.2932373E 01 0.1168701E 01-0.3317871E 01 0.1377686E 01
          0.8952637E 00-0.5007568E 01 0.3315430E 01-0.1428223E 00-0.2183350E 01
         -0.2254639E 01-0.3240967E 01 0.1720215E 01 0.2908691E 01 0.5316895E 01
ROW  19   0.1537354E 01 0.1983887E 01 0.4078613E 01-0.4265869E 01 0.1376221E 01
         -0.1086426E 00-0.3695313E 01-0.2277100E 01-0.1301514E 01 0.5127197E 01
          0.4096680E 01 0.1632813E 01-0.4635010E 01 0.1924316E 01 0.1250732E 01
         -0.6995361E 01 0.4631592E 01-0.1992188E 00-0.3050049E 01-0.3149658E 01
         -0.4527832E 01 0.2403564E 01 0.4063477E 01 0.7427734E 01
ROW  20   0.2559814E 01 0.5262939E 01-0.5504883E 01 0.1776123E 01-0.1401367E 00
         -0.4768555E 01-0.2938477E 01-0.1679443E 01 0.6616211E 01 0.5286377E 01
          0.2107178E 01-0.5981201E 01 0.2483398E 01 0.1614014E 01-0.9027100E 01
          0.5976563E 01-0.2568359E 00-0.3935791E 01-0.4064453E 01-0.5842773E 01
          0.3101318E 01 0.5243652E 01 0.9584961E 01
ROW  21   0.1082202E 02-0.1131860E 02 0.3652100E 01-0.2880859E 00-0.9804688E 01
         -0.6041504E 01-0.3453369E 01 0.1360376E 02 0.1086963E 02 0.4332764E 01
         -0.1229785E 02 0.5106689E 01 0.3318604E 01-0.1856030E 02 0.1228906E 02
         -0.5283203E 00-0.8092285E 01-0.8356689E 01-0.1201318E 02 0.6376953E 01
          0.1078174E 02 0.1970801E 02
ROW  22   0.1183765E 02-0.3819824E 01 0.3010254E 00 0.1025464E 02 0.6318359E 01
          0.3611328E 01-0.1422852E 02-0.1136841E 02-0.4531738E 01 0.1286182E 02
         -0.5341064E 01-0.3471191E 01 0.1941162E 02-0.1285327E 02 0.5524902E 00
          0.8463135E 01 0.8739746E 01 0.1256396E 02-0.6669678E 01-0.1127686E 02
         -0.2061206E 02
ROW  23   0.1232178E 01-0.9741211E-01-0.3309082E 01-0.2039063E 01-0.1165527E 01
          0.4590820E 01 0.3668213E 01 0.1462158E 01-0.4150391E 01 0.1723145E 01
          0.1119873E 01-0.6263672E 01 0.4147217E 01-0.1784668E 00-0.2730713E 01
         -0.2820313E 01-0.4053955E 01 0.2151855E 01 0.3638428E 01 0.6650879E 01
ROW  24   0.7568359E-02 0.2607422E 00 0.1604004E 00 0.9179688E-01-0.3623047E 00
         -0.2893066E 00-0.1154785E 00 0.3271484E 00-0.1359863E 00-0.8837891E-01
          0.4936523E 00-0.3271484E 00 0.1391602E-01 0.2150879E 00 0.2221680E 00
          0.3193359E 00-0.1696777E 00-0.2871094E 00-0.5244141E 00
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ROW	25	0.6883057E 01	0.5473389E 01	0.3128418E 01	01-0.1232568E 02
		-0.3925781E 01	0.1114615E 02	02-0.4626709E 01	01-0.3006836E 01
		-0.1113428E 02	0.4785156E 00	0.7331055E 01	0.7571045E 01
		-0.5777588E 01	-0.9768555E 01	-0.1785571E 02	
ROW	26	0.3372559E 01	0.1927490E 01	-0.7594727E 01	-0.6068359E 01
		0.6865234E 01	-0.2850830E 01	-0.1852783E 01	0.1036133E 02
		0.2949219E 00	0.4517090E 01	0.4664795E 01	0.6706055E 01
		-0.6019043E 01	-0.1100220E 02		
ROW	27	0.1115356E 01	0.9431064E 01	-0.3468506E 01	-0.1382563E 01
		-0.1629639E 01	-0.1055082E 01	0.5922119E 01	-0.3921387E 01
		0.2581787E 01	0.2666260E 01	0.3833008E 01	-0.2034912E 01
		-0.6288574E 01			
ROW	28	0.1710107E 01	0.1366382E 02	0.5446289E 01	-0.1545947E 02
		0.4171631E 01	-0.2333203E 02	0.1544824E 02	0.6643066E 00
		-0.1.505113E 02	-0.1510132E 02	-0.8016113E 01	0.1395347E 02
ROW	29	0.1091174E 02	0.4351807E 01	-0.1215205E 02	0.5129150E 01
		-0.1864233E 01	0.1234326E 02	-0.5307617E 00	-0.8127685E 01
		-0.1206592E 02	0.6405029E 01	0.1082935E 02	0.1979468E 02
ROW	30	0.1734863E 01	-0.4923828E 01	-0.2044434E 01	0.1328369E 01
		0.4920410E 01	-0.2116699E 00	-0.3239746E 01	-0.3345947E 01
		0.2552979E 01	0.4316650E 01	0.7890625E 01	
ROW	31	0.1397437E 02	-0.5803223E 01	-0.3771484E 01	0.2109131E 02
		0.6000977E 00	0.9195313E 01	0.9496094E 01	0.1365112E 02
		-0.1225220E 02	-0.2239575E 02		
ROW	32	0.2409424E 01	0.1565918E 01	-0.8758301E 01	0.5799072E 01
		-0.3818604E 01	-0.3943359E 01	0.5668945E 01	0.3009033E 01
		0.9299561E 01			
ROW	33	0.1017578E 01	-0.5691895E 01	0.3768555E 01	-0.1621094E 01
		0.2662354E 01	-0.3684326E 01	0.1981323E 01	0.3306152E 01
ROW	34	0.3183203E 02	0.2107690E 02	0.9057617E 00	0.1387793E 02
		0.2060278E 02	0.1093701E 02	-0.1849170E 02	-0.3380054E 02
ROW	35	0.1395532E 02	0.6000977E 00	-0.9189209E 01	-0.9489990E 01
		0.7241455E 01	0.1224365E 02	0.2237988E 02	0.1364185E 02
ROW	36	0.2563477E-01	0.3947754E 00	0.4077148E 00	0.5861816E 00
		-0.5263672E 00	0.9621582E 00		
ROW	37	0.6605957E 01	0.6248291E 01	0.8982178E 01	-0.4768311E 01
		-0.1473633E 02			
ROW	38	0.6452637E 01	0.9276123E 01	-0.4924316E 01	-0.8325684E 01
ROW	39	0.1333472E 02	-0.7078857E 01	-0.1196851E 02	-0.2187671E 02
ROW	40	0.3757568E 01	0.6353271E 01	0.1161279E 02	
ROW	41	0.1074170E 02	0.1963452E 02		
ROW	42	0.3588989E 02			

W MATRIX

ROW	1	0.2210808E 03	0.1330063E 03	0.9390929E 02	0.1203347E 03
		0.3975587E 02	0.3820044E 02	0.3131079E 02	0.2434399E 02
		0.4838379E 01	0.6281567E 02	0.1613435E 02	0.4907886E 02
		0.6436255E 02	0.5015552E 02	0.4999268E 02	0.4504663E 02
		0.3373462E 02	0.2010742E 01	0.4721118E 02	0.4281616E 02
		0.4907349E 02	0.4116650E 02	0.2237988E 02	0.3620239E 02
		0.8694727E 02	0.8876636E 02	0.9093530E 02	0.9469141E 02
		0.4610010E 02	0.4857446E 02	0.5253052E 02	0.4756665E 02
		0.4158374E 02	0.5229297E 02		
ROW	2	0.1838482E 03	0.1276526E 03	0.1205239E 03	0.3191777E 02
		0.5437695E 02	0.2132837E 02	0.2256033E 02	0.7519165E 01
		0.5112622E 02	0.2366115E 02	0.4555371E 02	0.4419434E 02
		0.5136060E 02	0.4454321E 02	0.4407666E 02	0.2512329E 02
		-0.2006958E 02	0.3150293E 02	0.3651880E 02	0.3541699E 02
		0.2768286E 02	0.3101611E 02	0.4067261E 02	0.2720723E 02
		0.4912598E 02	0.5714429E 02	0.6247559E 02	0.4671509E 02
		0.2308960E 02	0.4166162E 02	0.1623999E 02	0.1877905E 02
		0.2752954E 02			

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ROW   3   0.1285817E 03 0.8487541E 02 0.3547185E 02 0.4235498E 02 0.4575977E 02
          0.1533203E 02 0.2145355E 02 0.9116364E 01 0.9683044E 01 0.4566992E 02
          0.2421387E 02 0.3358057E 02 0.3334375E 02 0.1397607E 02 0.2923242E 02
          0.3338475E 02 0.3472382E 02 0.1937476E 02 0.2749561E 02-0.1329150E 02
          0.1553442E 02 0.2680273E 02 0.2918774E 02 0.3795996E 02 0.2107324E 02
          0.1610962E 02 0.2545485E 02 0.1983936E 02 0.3799268E 02 0.4361992E 02
          0.4882016E 02 0.4269751E 02 0.3923730E 02-0.4357910E 00 0.1327417E 02
          0.2394556E 02 0.8526367E 01 0.2019727E 02 0.1408569E 02 0.2220752E 02
ROW   4   0.2709470E 03 0.4841089E 02 0.5026147E 02 0.4849438E 02 0.3829028E 02
          0.3438965E 02 0.1931641E 01 0.1938721E 01 0.8378662E 02 0.2908325E 02
          0.3435840E 02 0.3256494E 02 0.4479175E 02 0.5358325E 02 0.3901709E 02
          0.4001123E 02 0.3439913E 02 0.3369995E 02 0.1210474E 02 0.6103711E 02
          0.5566284E 02 0.4723901E 02 0.6194678E 02 0.3156421E 02 0.3988647E 02
          0.3498730E 02 0.4054443E 02 0.9319653E 02 0.7001367E 02 0.8802515E 02
          0.8960791E 02 0.6935303E 02 0.3061304E 02 0.3997388E 02 0.6037720E 02
          0.5711475E 02 0.4767871E 02 0.5205737E 02 0.5857685E 02
ROW   5   0.2398372E 03 0.1481167E 03 0.1203284E 03 0.1034382E 03 0.1068345E 03
          0.6293796E 02 0.6249620E 02 0.4210693E 02 0.1050591E 03 0.7584448E 02
          0.7517920E 02 0.5565283E 02 0.5191724E 02 0.3482959E 02 0.3223999E 02
          0.6066455E 02 0.8824683E 02 0.2655420E 02 0.1025801E 03 0.9450293E 02
          0.7524951E 02 0.7914282E 02 0.8586694E 02 0.8983130E 02 0.7552417E 02
          0.9238452E 02-0.2192017E 02-0.1091553E 01 0.1640381E 01 0.9512939E 01
         -0.1417480E 01 0.9282715E 01-0.1608398E 01-0.1192578E 02 0.7825195E 01
          0.4363208E 02 0.2639063E 02 0.3480762E 02
ROW   6   0.3492505E 03 0.2811353E 03 0.2343806E 03 0.2124980E 03 0.1276223E 03
          0.1329058E 03 0.4889331E 02 0.1485593E 03 0.1262217E 03 0.1210452E 03
          0.8656787E 02 0.1186741E 03 0.8571143E 02 0.9203857E 02 0.1251428E 03
          0.1571938E 03 0.6333057E 02 0.2089492E 03 0.1898606E 03 0.1497124E 03
          0.1631858E 03 0.1759714E 03 0.1547793E 03 0.1412756E 03 0.1368091E 03
         -0.2590942E 02-0.2881543E 02-0.2662427E 02 0.7051270E 01-0.1368237E 02
         -0.1319727E 02-0.3798584E 02-0.3199658E 02-0.8241699E 01 0.8903638E 02
          0.6988013E 02 0.7921216E 02
ROW   7   0.3335537E 03 0.2070476E 03 0.1676484E 03 0.1306418E 03 0.1271272E 03
          0.4715552E 02 0.1347026E 03 0.1009578E 03 0.9931689E 02 0.7931055E 02
          0.1130833E 03 0.7573511E 02 0.8159448E 02 0.1210181E 03 0.1497178E 03
          0.6221851E 02 0.1678318E 03 0.1742744E 03 0.1444097E 03 0.1575837E 03
          0.1564207E 03 0.1359807E 03 0.1291504E 03 0.1292349E 03-0.8562256E 01
         -0.1362695E 02-0.2719653E 02 0.5901123E 01-0.4958740E 01-0.1601880E 02
         -0.2714771E 02-0.2443994E 02 0.1468262E 01 0.7157544E 02 0.6124146E 02
          0.7274219E 02
ROW   8   0.2945862E 03 0.2491948E 03 0.1505688E 03 0.1598486E 03 0.3100977E 02
          0.1163320E 03 0.8320825E 02 0.8591895E 02 0.6231787E 02 0.9390137E 02
          0.7788403E 02 0.7703271E 02 0.9021997E 02 0.1292666E 03 0.6118262E 02
          0.1648381E 03 0.1622263E 03 0.1375820E 03 0.1262148E 03 0.1423003E 03
          0.1360232E 03 0.1304646E 03 0.1484214E 03 0.6892578E 01 0.9813721E 01
          0.9452881E 01 0.2081055E 02 0.6761475E 01 0.6650146E 01-0.8806152E 00
          0.3797607E 01 0.1578662E 02 0.7075732E 02 0.3912183E 02 0.5111206E 02
ROW   9   0.2950217E 03 0.1677795E 03 0.1659451E 03 0.3106812E 02 0.1084116E 03
          0.6178467E 02 0.6155078E 02 0.3932422E 02 0.6126221E 02 0.4888916E 02
          0.5461646E 02 0.6157300E 02 0.1150657E 03 0.4769727E 02 0.1275103E 03
          0.1223977E 03 0.1238799E 03 0.1081448E 03 0.1132888E 03 0.1262107E 03
          0.1252461E 03 0.1439128E 03-0.6903320E 01 0.9157227E 01 0.1524634E 02
          0.2149146E 02 0.1282715E 02-0.5024414E 01-0.1385719E 00-0.4031006E 01
          0.2842065E 02 0.6163892E 02 0.3720190E 02 0.4188062E 02
ROW  10   0.1817001E 03 0.1435233E 03 0.1486426E 02 0.7642847E 02 0.4548975E 02
          0.4180249E 02 0.3172290E 02 0.4399756E 02 0.4281689E 02 0.4513086E 02
          0.4121338E 02 0.6961084E 02 0.3562158E 02 0.7697607E 02 0.8129028E 02
          0.9391284E 02 0.7600098E 02 0.8304468E 02 0.7376440E 02 0.8580176E 02
          0.9281616E 02-0.1374902E 02 0.2474121E 01 0.3639160E 01 0.7809326E 01
          0.3493164E 01-0.2622876E 02 0.1224365E 01 0.4718994E 01 0.1461499E 02
          0.2990063E 02 0.1289404E 02 0.1090332E 02
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ROW  11   0.1781282E 03 0.1738843E 02 0.7858057E 02 0.4585327E 02 0.4786011E 02
          0.3731641E 02 0.4584326E 02 0.5062085E 02 0.5743164E 02 0.4669312E 02
          0.7187524E 02 0.4123560E 02 0.7428125E 02 0.8422607E 02 0.9325342E 02
          0.8025610E 02 0.7691602E 02 0.7922144E 02 0.9047021E 02 0.9493823E 02
         -0.1621680E 02 0.3581055E 01 0.1163330E 00 0.1069800E 02 0.1040039E 02
         -0.1495288E 02 0.7468262E 01 0.1194043E 02 0.2025098E 02 0.3611353E 02
          0.2299487E 02 0.2698999E 02
ROW  12   0.2374370E 03 0.1079612E 03 0.7021362E 02 0.7425244E 02 0.6015552E 02
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          0.7580591E 02 0.5557300E 02 0.8579614E 02 0.5495166E 02 0.5235938E 02
          0.1863110E 02 0.3689331E 02 0.5497095E 02 0.5974780E 02 0.6798071E 02
          0.6829150E 02
ROW  13   0.3238623E 03 0.1285195E 03 0.1234065E 03 0.5837842E 02 0.9655786E 02
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          0.1468918E 03 0.1307446E 03 0.1133489E 03 0.1148979E 03 0.1396384E 03
          0.1372329E 03 0.1346567E 03 0.1509377E 03-0.1654248E 02-0.2887476E 02
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         -0.6541260E 01-0.1884839E 02 0.9478296E 02 0.6078442E 02 0.7671436E 02
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          0.1654602E 03 0.1547031E 03 0.1298796E 03 0.5353271E 02 0.1905542E 03
          0.1383416E 03 0.9697388E 02 0.9874878E 02 0.1613281E 03 0.1327588E 03
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ROW  15   0.2678940E 03 0.1697495E 03 0.1865894E 03 0.1634104E 03 0.1680913E 03
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          0.7618750E 02 0.7437524E 02 0.8249927E 02
ROW  16   0.2837700E 03 0.1829432E 03 0.1429512E 03 0.1376484E 03 0.1763694E 03
          0.1096367E 03 0.5202930E 02 0.1461289E 03 0.1277339E 03 0.8567993E 02
          0.8728638E 02 0.1355559E 03 0.8771045E 02 0.6355566E 02 0.8488354E 02
          0.5124854E 02 0.9472437E 02 0.4769531E 02 0.5395508E 02 0.9743896E 01
          0.4538672E 02 0.2801440E 02 0.1701953E 02 0.3038721E 02 0.6489966E 02
          0.8134937E 02 0.9360693E 02
ROW  17   0.2627100E 03 0.1854807E 03 0.1753433E 03 0.1684631E 03 0.1280417E 03
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          0.1511174E 03 0.1157122E 03 0.9189917E 02 0.1169160E 03 0.2393286E 02
          0.2870996E 02 0.6730225E 01 0.2401758E 02-0.1435132E 02-0.5640381E 01
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          0.6976953E 02
ROW  18   0.2427927E 03 0.2141594E 03 0.1413315E 03 0.9664966E 02 0.2473901E 02
          0.1375122E 03 0.1278735E 03 0.9197144E 02 0.9938159E 02 0.1092966E 03
          0.1043301E 03 0.9003467E 02 0.1052126E 03 0.2582617E 02 0.2386548E 02
          0.1081763E 02 0.2181982E 02 0.4905762E 01 0.2131836E 01 0.1012207E 01
          0.2487354E 02-0.1272705E 01 0.4213062E 02 0.4312451E 02 0.5405347E 02
ROW  19   0.2331838E 03 0.1337622E 03 0.1047144E 03 0.3221069E 02 0.1311321E 03
          0.1207219E 03 0.9271753E 02 0.9952319E 02 0.1132078E 03 0.1103728E 03
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          0.2405908E 02 0.1820557E 02 0.7732422E 01 0.1356396E 02 0.3529346E 02
          0.1606934E 02 0.5004419E 02 0.5233716E 02 0.6196191E 02
ROW  20   0.2928325E 03 0.1463503E 03 0.6906860E 02 0.1764395E 03 0.1420850E 03
          0.9934326E 02 0.1033308E 03 0.1672375E 03 0.1483838E 03 0.1052993E 03
          0.1251582E 03 0.2533496E 02 0.4855542E 02 0.1879492E 02 0.3567920E 02
          0.3178589E 02 0.2111890E 02 0.3294922E 01 0.9799316E 01 0.4920166E 01
          0.1055342E 03 0.1041709E 03 0.1385422E 03
ROW  21   0.3483411E 03 0.1254956E 03 0.1741216E 03 0.1675259E 03 0.1455342E 03
          0.1531548E 03 0.1753540E 03 0.1668962E 03 0.1514124E 03 0.1634270E 03
         -0.3522461E 01 0.1482715E 02 0.4623535E 01 0.3565723E 02 0.3433252E 02
          0.2612231E 02 0.8048096E 01 0.3209717E 02 0.2186062E 02 0.1363911E 03
          0.9843652E 02 0.1211458E 03
```

```
ROW  22   0.2496763E 03 0.1026929E 03 0.8629590E 02 0.7673999E 02 0.7324536E 02
          0.1031624E 03 0.7422852E 02 0.5084375E 02 0.6806787E 02 0.5451953E 02
          0.1352344E 02 0.1425586E 02 0.3594751E 02 0.4301904E 02 0.5593945E 02
          0.6565845E 02 0.6372437E 02 0.4680078E 02 0.8780786E 02 0.8080176E 02
          0.9463989E 02
ROW  23   0.3923369E 03 0.3112080E 03 0.2161599E 03 0.2242546E 03 0.2890496E 03
          0.2084092E 03 0.1461606E 03 0.1870076E 03 0.1644336E 02 0.7199707E 01
         -0.5937500E 01 0.3495995E 02-0.3267188E 02 0.8454834E 01-0.7987305E 01
         -0.2164917E 02-0.1710059E 02 0.1195776E 03 0.8353296E 02 0.8009521E 02
ROW  24   0.3621694E 03 0.2337007E 03 0.2627844E 03 0.2513223E 03 0.1743623E 03
          0.1506155E 03 0.1728669E 03 0.2034155E 02 0.1941235E 02 0.1580322E 01
          0.4902026E 02-0.2851245E 02-0.1571777E 01 0.6357422E 00-0.2797339E 02
         -0.1076685E 02 0.9613672E 02 0.6496118E 02 0.7171802E 02
ROW  25   0.2947192E 03 0.2691013E 03 0.2135623E 03 0.1153257E 03 0.1310581E 03
          0.1395115E 03 0.2130591E 02 0.2475391E 02 0.2049316E 02 0.5604077E 02
          0.9068115E 01-0.1307520E 02 0.1442041E 02 0.5843506E 01 0.1137085E 02
          0.6272241E 02 0.4655884E 02 0.5084473E 02
ROW  26   0.3165198E 03 0.2216306E 03 0.1340947E 03 0.1446541E 03 0.1451843E 03
          0.1698853E 02 0.1888965E 02 0.1676172E 02 0.4779077E 02-0.7876709E 01
         -0.2093286E 02 0.5842041E 01-0.9299316E 00 0.4371338E 01 0.7019556E 02
          0.4693359E 02 0.5462939E 02
ROW  27   0.3362134E 03 0.1813411E 03 0.1430764E 03 0.1673938E 03 0.4424316E 01
          0.1283960E 02-0.5007080E 01 0.2418848E 02 0.8203369E 01 0.2936768E 02
          0.2322485E 02 0.1232275E 02 0.1658691E 02 0.1097698E 03 0.8783276E 02
          0.9883569E 02
ROW  28   0.2953989E 03 0.2173362E 03 0.2010537E 03-0.7040527E 01-0.5419189E 01
         -0.9671631E 01 0.1983203E 02 0.2905176E 02 0.1216431E 02 0.5172363E 01
          0.1250513E 02 0.1013184E 00 0.1009839E 03 0.7794653E 02 0.9572583E 02
ROW  29   0.2670273E 03 0.1952837E 03 0.1865967E 01 0.1494287E 02 0.1485474E 02
          0.3499609E 02 0.5035840E 02 0.7845703E 01 0.1250903E 02 0.2175830E 02
          0.7209717E 01 0.7434644E 02 0.6322607E 02 0.7815576E 02
ROW  30   0.2819587E 03 0.2401514E 02 0.3162964E 02 0.2001147E 02 0.4686499E 02
          0.3901074E 02 0.3359033E 02 0.2735596E 02 0.1315259E 02 0.2615796E 02
          0.8280615E 02 0.5454810E 02 0.6868140E 02
ROW  31   0.3506472E 03 0.2230354E 03 0.1937246E 03 0.1923203E 03 0.8803979E 02
          0.1150713E 03 0.1129595E 03 0.1159128E 03 0.9581299E 02 0.2305908E 02
          0.2923853E 02 0.2865820E 02
ROW  32   0.3363972E 03 0.2323899E 03 0.1894988E 03 0.8838892E 02 0.9694019E 02
          0.1080232E 03 0.9226953E 02 0.1022822E 03 0.2881421E 02 0.4684082E 02
          0.6406519E 02
ROW  33   0.2684438E 03 0.1835898E 03 0.1151460E 03 0.9139160E 02 0.1027856E 03
          0.9972314E 02 0.1005959E 03 0.3289014E 02 0.3500610E 02 0.4502563E 02
ROW  34   0.2800051E 03 0.8788647E 02 0.7337891E 02 0.8428247E 02 0.6673462E 02
          0.7787793E 02 0.5252832E 02 0.5663818E 02 0.5801830E 02
ROW  35   0.3345337E 03 0.1750007E 03 0.1676479E 03 0.1520591E 03 0.1390176E 03
          0.7341602E 02 0.9755493E 02 0.1184517E 03
ROW  36   0.3575793E 03 0.2387324E 03 0.1517139E 03 0.1827952E 03 0.8122876E 02
          0.8471167E 02 0.8144580E 02
ROW  37   0.3634192E 03 0.2546357E 03 0.2034268E 03 0.5498389E 02 0.6668091E 02
          0.7797949E 02
ROW  38   0.3587410E 03 0.1763760E 03 0.5356543E 02 0.6896118E 02 0.8114648E 02

ROW  39   0.3198918E 03 0.7072534E 02 0.7582495E 02 0.8560620E 02
ROW  40   0.2476238E 03 0.1458955E 03 0.1536636E 03
ROW  41   0.2097031E 03 0.1819153E 03
ROW  42   0.2606655E 03
```

DISPERSION DETERMINANT = 0.1025E-19

FOR TEST OF H1 (EQUALITY OF DISPERSIONS), M = 2289.289 AND F = 2.125

FOR F, NDF1 = 903 AND NDF2 = 124509
*** I M S L(UERTST) *** TERMINAL MDFD 1 (IER = 129)

FOR F-TEST, LEFT HAND AREA UNDER CURVE FOR GIVEN NDF-S = ******

UNIVARIATE F-RATIOS, WITH NDF1 = 1 AND NDF2 = 360

VARIABLE	AMONG MEAN SQ	WITHIN MEAN SQ	F-RATIO	F-SIGNIFICANCE LEVEL	ETA SQUARE
1	1.063	0.614	1.731	0.1892	0.0048
2	1.779	0.511	3.484	0.0628	0.0096
3	0.987	0.357	2.764	0.0973	0.0076
4	0.567	0.753	0.753	0.3861	0.0021
5	0.196	0.666	0.294	0.5879	0.0008
6	6.794	0.970	7.003	0.0085	0.0191
7	25.739	0.927	27.780	0.0000	0.0716
8	2.121	0.818	2.592	0.1083	0.0071
9	0.097	0.820	0.119	0.7310	0.0003
10	0.623	0.505	1.235	0.2673	0.0034
11	0.0604	0.495	0.193	0.6604	0.0005
12	4.696	0.660	7.120	0.0080	0.0194
13	0.815	0.900	0.906	0.3420	0.0025
14	1.324	0.796	1.668	0.1974	0.0046
15	0.007	0.744	0.009	0.9253	0.0000
16	0.805	0.788	1.021	0.3130	0.0028
17	0.097	0.730	0.132	0.7162	0.0004
18	0.788	0.674	1.168	0.2806	0.0032
19	1.537	0.648	2.373	0.1243	0.0065
20	2.560	0.813	3.147	0.0769	0.0087
21	10.822	0.968	11.184	0.0009	0.0301
22	11.838	0.694	17.068	0.0000	0.0453
23	1.232	1.090	1.131	0.2884	0.0031
24	0.008	1.006	0.008	0.9318	0.0000
25	8.883	0.819	10.851	0.0011	0.0293
26	3.373	0.879	3.836	0.0510	0.0105
27	1.102	0.934	1.179	0.2782	0.0033
28	17.101	0.821	20.841	0.0000	0.0547
29	10.917	0.742	14.719	0.0002	0.0393
30	1.735	0.783	2.215	0.1376	0.0061
31	1.974	0.974	1.947	0.0702	0.0383
32	2.409	0.934	2.578	0.1092	0.0071
33	1.018	0.746	1.365	0.2435	0.0038
34	31.832	0.778	40.926	0.0000	0.1021
35	13.955	0.929	15.018	0.0001	0.0400
36	0.026	0.993	0.026	0.8729	0.0001
37	6.051	1.009	5.994	0.0148	0.0164
38	6.453	0.997	6.475	0.0114	0.0177
39	13.335	0.889	15.007	0.0001	0.0400
40	3.758	0.688	5.463	0.0200	0.0149
41	10.742	0.583	18.440	0.0000	0.0487
42	35.890	0.724	49.567	0.0000	0.1210

WILKS LAMBDA = 0.4275 GENERALIZED CORRELATION RATIO, ETA SQUARE = 0.5725
F-RATIO FOR H2, OVERALL DISCRIMINATION, = 10.171
FOR F, NDF1 = 42 AND NDF2 = 319
FOR F-TEST, LEFT HAND AREA UNDER CURVE FOR GIVEN NDF-S = 1.0000

END

APPENDIX F

SAMPLE S

COMPUTERIZED METHOD OF SUCCESSIVE INTERVALS

Monroe Model 325 computer program to perform ordinal-to-interval data conversion using Torgerson's method of successive intervals applied to the Law of Comparative Judgment.

Program Block One accepts the input data and calculates certain probabilistic values. After rewinding the data tape written by block one, program block two calculates the standard normal deviates for each of the relative frequencies. An approximation to the inverse normal distribution given by Abramowitz and Stegun* is used for these calculations. After rewinding the data tape from the second program block, block three produces the interval scale values for each of 42 educational areas.

Register assignments for each program block follows:

Register #	Block 1	Block 2	Block 3
0	cumulative relative frequency, cell 4	N(0,1), cell 4	t_4
1	cumulative relative frequency, cell 3	N(0,1), cell 3	t_3
2	cumulative relative frequency, cell 2	N(0,1), cell 2	t_2
3	cumulative relative frequency, cell 1	row total	row mean
4	row sum	column 4 sum	column 4 sum
5	unused	column 3 sum	column 3 sum
6	unused	column 2 sum	column 2 sum
7	unused	unused	A
8	unused	unused	mean t
9	counter	counter	counter
d	counter	switch	B_j
s	scratch	t work	unused

* Refer to formula #26.2.23 for the rational approximation where the error is less than 4.5×10^{-4}.

Block One:

```
•001  001          1
•002  004          4
•003  041     TR
•004  137     CA
•005  220  DP     0
•006  004          4
•007  002          2
•008  300     ST
•009  012          d
•010  200     L    0
•011  004          4
•012  360  B
•013  011          9
•014  300     ST
•015  000          0
•016  300     ST
•017  004          4
•018  003          3
•019  360  B
•020  011          9
•021  300     ST
•022  001          1
•023  301     ST+
•024  004          4
•025  002          2
•026  360  B
•027  011          9
•028  300     ST
•029  002          2
•030  301     ST+
•031  004          4
•032  001          1
•033  360  B
•034  011          9
•035  300     ST
•036  003          3
•037  321     XC+
•038  004          4
•039  034  PT
•040  114  PS
•041  310     RC
•042  000          0
•043  314     RC+
•044  004          4
•045  300     ST
•046  000          0
•047  310     RC
•048  001          1
•049  314     RC+
•050  004          4
•051  311     RC+
•052  000          0
•053  300     ST
•054  001          1
•055  310     RC
•056  002          2
•057  314     RC+
•058  004          4
•059  311     RC+
•060  001          1
•061  300     ST
•062  002          2
•063  037     CL
•064  340      D   W
•065  003          3
•066  037     CL
•067  340      D   W
•068  003          3
•069  001          1
•070  322     XC-
•071  012          d
•072  351  JC
•073  000          0
•074  202     L    2
•075  224  DP     4
•076  002          2
•077  032  I  D
•078  033     S    S
•079  002          2
•080  041     TR
•081  211     L    9
•082  300     ST
•083  013          S
•084  004          4
•085  002          2
•086  312     RC-
•087  012          d
•088  021          +
•089  001          1
•090  021          +
•091  026          (
•092  310     RC
•093  013          S
•094  024          +
•095  001          1
•096  000          0
•097  027          )
•098  020          =
•099  032  I  D
•100  033     S    S
•101  357  JC
•102  010          8
•103  310     RC
•104  013          S
•105  350  J
•106  011          9
•107  210     L    8
•108  030     RT
```

Block Two:

```
•001  037   CL
•002  300   ST
•003  004       4
•004  300   ST
•005  005       5
•006  300   ST
•007  006       6
•008  001       1
•009  004       4
•010  041    TR
•011  004       4
•012  002       2
•013  300   ST
•014  011       9
•015  200    L  0
•016  037   CL
•017  041    TR
•018  310   RC
•019  000       0
•020  360   B
•021  011       9
•022  300   ST
•023  000       0
•024  300   ST
•025  003       3
•026  301   ST+
•027  004       4
•028  310   RC
•029  001       1
•030  360   B
•031  011       9
•032  300   ST
•033  001       1
•034  301   ST+
•035  003       3
•036  301   ST+
•037  005       5
•038  310   RC
•039  002       2
•040  360   B
•041  011       9
•042  300   ST
•043  002       2
•044  301   ST+
•045  003       3
•046  301   ST+
•047  006       6
•048  003       3
•049  324   XC+
•050  003       3
•051  037   CL
•052  340     D   W
•053  003         3
•054  001         1
•055  322   XC-
•056  011         9
•057  353  JC
•058  000         0
•059  112 D  T
•060  003         3
•061  032  I  D
•062  033    S   S
•063  003         3
•064  041     TR
•065  211     L  9
•066  300    ST
•067  013        S
•068  001          1
•069  013        S
•070  300    ST
•071  012          d
•072  310    RC
•073  013        S
•074  022       -
•075  012          d
•076  005           5
•077  020       =
•078  352  JC
•079  010           8
•080  001           1
•081  022       -
•082  310    RC
•083  013        S
•084  020       =
•085  300    ST
•086  013        S
•087  001          1
•088  300    ST
•089  012          d
•090  210     L  8
•091  310    RC
•092  013        S
•093  162    SQ
•094  063    ½
•095  060    ⅒
•096  062    ⅖
•097  300    ST
•098  013        S
•099  022       -
•100  026       (
```

```
•101  310   RC
•102  013     S
•103  023    ×
•104  012     d
•105  000       0
•106  001       1
•107  000       0
•108  003       3
•109  002       2
•110  010       8
•111  021    +
•112  012     d
•113  010       8
•114  000       0
•115  002       2
•116  010       8
•117  005       5
•118  003       3
•119  023    ×
•120  310   RC
•121  013     S
•122  021    +
•123  002       2
•124  012     d
•125  005       5
•126  001       1
•127  005       5
•128  005       5
•129  001       1
•130  007       7
•131  024    +
•132  026    (
•133  310   RC
•134  013     S
•135  023    ×
•136  012     d
•137  000       0
•138  000       0
•139  001       1
•140  003       3
•141  000       0
•142  010       8
•143  021    +
•144  012     d
•145  001       1
•146  010       8
•147  011       9
•148  002       2
•149  006       6
•150  011       9
•151  023    ×
•152  310   RC
•153  013     S
•154  021    +
•155  001       1
•156  012     d
•157  004       4
•158  003       3
•159  002       2
•160  007       7
•161  010       8
•162  010       8
•163  023    ×
•164  310   RC
•165  013     S
•166  021    +
•167  001       1
•168  027    )
•169  027    )
•170  020    =
•171  110   R
•172  023    ×
•173  310   RC
•174  012     d
•175  020    =
•176  030   RT
•177
•178
•179
•180
```

Block Three:

```
•001  001        1
•002  004        4
•003  041     TR
•004  310    RC
•005  004        4
•006  024      +
•007  004        4
•008  002        2
•009  020      =
•010  300    ST
•011  000        0
•012  300    ST
•013  010        8
•014  310    RC
•015  005        5
•016  024      +
•017  004        4
•018  002        2
•019  020      =
•020  300    ST
•021  001        1
•022  301    ST+
•023  010        8
•024  310    RC
•025  006        6
•026  024      +
•027  004        4
•028  002        2
•029  020      =
•030  300    ST
•031  002        2
•032  311    RC+
•033  010        8
•034  024      ÷
•035  003        3
•036  020      =
•037  300    ST
•038  010        8
•039  310    RC
•040  000        0
•041  022      -
•042  310    RC
•043  010        8
•044  020      =
•045  162    SQ
•046  300    ST
•047  007        7
•048  310    RC
•049  001        1
•050  022      -
•051  310    RC
•052  010        8
•053  020      =
•054  162    SQ
•055  301    ST+
•056  007        7
•057  310    RC
•058  002        2
•059  022      -
•060  310    RC
•061  010        8
•062  020      =
•063  162    SQ
•064  301    ST+
•065  007        7
•066  224 DP     4
•067  201      L 1
•068  004        4
•069  002        2
•070  300    ST
•071  011        9
•072  035  P A
•073  035  P A
•074  112 D T
•075  035  P A
•076  035  P A
•077  202      L 2
•078  037    CL
•079  041     TR
•080  037    CL
•081  041     TR
•082  310    RC
•083  000        0
•084  022      -
•085  310    RC
•086  003        3
•087  020      =
•088  162    SQ
•089  300    ST
•090  012        d
•091  310    RC
•092  001        1
•093  022      -
•094  310    RC
•095  003        3
•096  020      =
•097  162    SQ
•098  301    ST+
•099  012        d
•100  310    RC
```

```
•101  002        2
•102  022        -
•103  310     RC
•104  003        3
•105  020        =
•106  162     SQ
•107  301     ST+
•108  012        d
•109  310     RC
•110  010        8
•111  022        -
•112  026        (
•113  310     RC
•114  007        7
•115  024        +
•116  310     RC
•117  012        d
•118  020        =
•119  062     f
•120  023        x
•121  310     RC
•122  003        3
•123  027        )
•124  020        =
•125  300     ST
•126  012        d
•127  004        4
•128  003        3
•129  022        -
•130  310     RC
•131  011        9
•132  020        =
•133  032     I D
•134  034     PT
•135  310     RC
•136  012        d
•137  110     R
•138  013        S
•139  034     PT
•140  001        1
•141  322     XC-
•142  011        9
•143  353     JC
•144  002        2
•145  035     P A
•146  035     P A
•147  112     D T
•148  035     P A
•149  035     P A
•150  035     P A
•151  035     P A
•152  011        8
•153  011        9
•154  011        9
•155  032     I D
•156  033      S  S
•157  001        1
•158  004        4
•159  041      TR
•160  350     J
•161  001        1
•162
•163
•164
•165
•166
```

Sample Output:

Raw Totals:

259.
259.
258.
259.
258.
259.
258.
257.
257.
257.
257.
259.
259.
259.
259.
259.
258.
258.
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Scale Values:

1.
-0.7927
2.
-1.7207
3.
-2.6394
4.
-0.2574
5.
-1.0660
6.
-0.0618
7.
-0.5220
8.
-0.5071
9.
-0.6148
10.
-1.0544
11.
-1.0306
12.
-0.1615
13.
-0.1298
14.
-0.1758
15.
-0.1991
16.
0.1581
17.
-0.0290
18.
-0.2592
19.
-0.3162
20.
0.6078
21.
0.4778

```
22•
      0•7760
23•
      0•8015
24•
      0•3241
25•
     -0•2353
26•
     -0•1084
27•
      0•2163
28•
      0•5582
29•
      0•1544
30•
      0•2243
31•
     -0•1125
32•
     -0•2674
33•
     -0•4226
34•
      0•0183
35•
      0•5639
36•
      0•4536
37•
      0•0221
38•
     -0•0624
39•
     -0•7462
40•
      1•3325
41•
      1•6354
42•
      1•7882

..........
```

APPENDIX G

EMPIRICAL DATA PRESENTATION

A. PRESENTATION OF ORGANIZATIONAL PARAMETER DATA

VAR001 "Command Name" - Of the 119 commands which received the original questionnaire, 99 commands [83.2%] had at least one respondent.

VAR002 "Billet Sequence Code" - No meaningful statistic exists.

VAR003 "Billet Title" - A listing of billet titles was used by the researchers only to gain an insight into a billet's function.

VAR004 "Unit Identification Code" - No meaningful statistic exists.

VAR005 "CONUS/Overseas Code" -

Code	# of cases	% of total
Continental U.S.	220	67.7%
Europe	24	7.4%
Pacific	66	20.3%
Atlantic/Med Afloat	11	3.4%
Pacific Afloat	4	1.2%
	325	

VAR006 "Country Code" - Geographically, responses were received from ten states, Washington, D.C., eight foreign countries, four U.S. protectorates, and forces afloat in the Atlantic, Pacific, and Mediterranean. The breakdown by the number of cases represented in each category is as follows:

Code	# of cases	% of total
United States	261	80.3%
Foreign countries	43	13.2%
Afloat	15	4.6%
Protectorates	6	1.9%
	325	

VAR016 "Billet Subspecialty Code" - Of the 319 military respondents, only 126 [39.5%] reported that their billet called for a specific subspecialty. The following breaks down those billet subspecialty codes reported:

Code	# of cases	% of 126 cases	% of 319 military
7210	91	72.2%	28.5%
7120	3	2.4%	0.9%
9670	3	2.4%	0.9%
2710	2	1.6%	0.6%
7110	2	1.6%	0.6%
8110	2	1.6%	0.6%
9640	2	1.6%	0.6%
Others	21	16.6%	6.6%
	126		

B. PRESENTATION OF PERSONAL PARAMETER DATA

VAR010 "Respondent's Name" - No meaningful presentation.

VAR003 "Billet Title" - Refer to organizational parameter data.

VAR011 "Respondent's Rank -

Code	# of respondents	% of total
Civilian	6	1.9%
Lieutenant	7	2.2%
Lieutenant Commander	175	53.8%
Commander	97	29.8%
Captain	40	12.3%
	325	

VAR012 "Respondent's Age" -

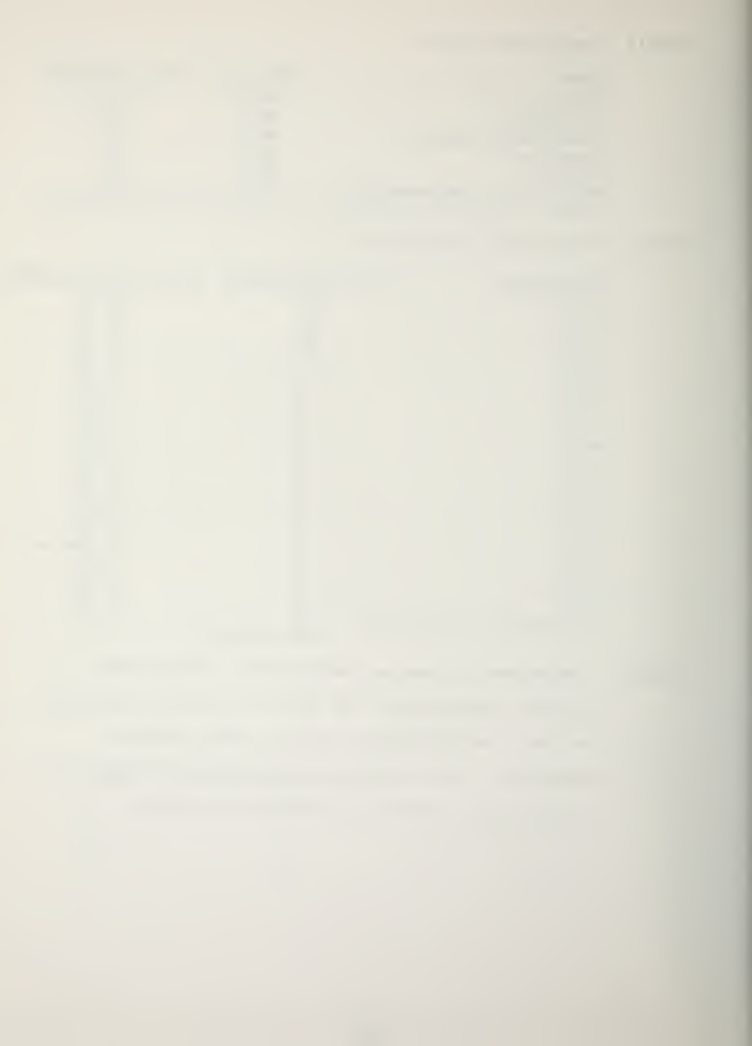
Code	Mean Age	Std. Deviation
Civilian	45.7	10.8
Lieutenant	29.9	2.8
Lieutenant Commander	36.2	3.2
Commander	40.9	2.6
Captain	46.6	3.5
Overall for respondents	39.0	5.2

(Note: only 317 respondents provided age information)

VAR013 "Respondent's Designator" -

Designator	# of respondents	% of military total
1630	186	58.3%
1110	41	12.6%
1310	28	8.8%
1120	20	6.3%
1637	7	2.2%
1635	6	1.9%
1610	6	1.9%
1320	5	1.6%
6632	3	0.9%
6622	2	0.6%
1100	2	0.6%
1350	1	0.3%
1510	1	0.3%
1636	1	0.3%
1810	1	0.3%
5100	1	0.3%
6462	1	0.3%
6631	1	0.3%
Unspecified designators	6	1.9%
	319 military	

VAR014 "Respondent's Previous Designator" - Of the 319 military respondents, 194 [60.8%] reported having had at least one designator prior to their present designator. The following percentages are based on the 194 total reporting previous designators.



Previous Designator	# of respondents	% of 194 total
1350	75	38.7%
1100	40	20.6%
1355	20	10.3%
1635	16	8.2%
1105	9	4.6%
1310	8	4.1%
1120	7	3.6%
1110	5	2.6%
1315	3	1.5%
1320	3	1.5%
1357	3	1.5%
1615	2	1.0%
1325	1	0.5%
1530	1	0.5%
6621	1	0.5%
	194	

VAR015 "Respondent's First Designator" - Of the 319 military respondents, 52 [16.3%] reported having had at least two designators prior to their present designator. The following percentages are based on the 52 total reporting at least two such designator changes.

First Designator	# of respondents	% of 52 total
1355	17	32.7%
1105	15	28.8%
1310	8	15.4%
1100	5	9.6%
1315	2	3.8%
1108	1	1.9%
1120	1	1.9%
1327	1	1.9%
1350	1	1.9%
1395	1	1.9%
	52	

VAR017 "Respondent's Subspecialty Code" - A total of 32 different respondent subspecialty codes were reported. The "other" category includes seven different codes with a frequency of two each, and 22 other codes with a frequency of two each, and 22 other codes reported only once.

Subspecialty Code	# of respondents	% of 319 military
7210	51	16.0%
7160	5	1.6%
9210	4	1.3%
Other (29 different codes)	36	11.3%
	96 reported	30.2%

VAR018 "Respondent's Education Level" -

Level reported	# of respondents	% of total
Less than a bachelors	21	6.5%
Bachelors degree	168	51.7%
Postgraduate studies	41	12.6%
Masters degree	83	25.5%
Ph.D.	3	0.9%
level not reported	9	2.8%
	325	

VAR019 "Training Used in Billet" - For a complete explanation of the training codes used refer to Table D-7 in Appendix D. Categories are not mutually exclusive and a respondent may be recorded more than once.

Training Used Category	% Frequency
Previous intelligence experience	10.1%
Previous military experience	8.0%
DIS/NIS [data invalid; cf. VAR208]	
Photointerpretation/photographic experience	5.2%
Intelligence training courses	9.5%
Foreign language training	1.5%
ADP training or experience	5.8%
Professional military education	5.8%
Professional training	9.2%

VAR208 "Defense Intelligence School Graduate" - A "3" code in VAR019 was combined with data in VAR208 to produce these statistics.

DIS/NIS graduate?	# of respondents	% of total
Yes	139	42.8%
No	141	43.4%
Status unknown	45	13.8%
	325	

VAR020 "Respondent's First Intelligence Billet" -

First intelligence tour?	# of respondents	% of total
Yes, first	44	13.5%
No, not first	278	85.5%
Status unknown	3	0.9%
	325	

VAR021 "Years Previous Intelligence Experience" -

Mean	Standard Deviation
8.1 years	6.0 years

VAR022 "Months in Billet" -

Mean	Standard Deviation
16.9 months	14.5 months

C. PRESENTATION OF FUNCTIONAL PARAMETER DATA

VAR003 "Billet Title" - Refer to organizational parameter data.

VAR011 "Respondent's Rank" - Refer to personal parameter data.

VAR013 "Respondent's Designator" - Refer to personal parameter data.

VAR016 "Billet Subspecialty Code" - Refer to organizational parameter data.

VAR019 "Training Used in Billet" - Refer to personal parameter data.

VAR025-VAR058 "Output Variables from First Iteration of Delphi A" - The aggregate results for the output variables are listed in Table G-1. Column 1 contains the variable number; column 2 lists the variable name; column 3 presents the percentage of respondents

TABLE G-1

OUTPUT PERCENTAGE VARIABLES — FIRST ITERATION OF DELPHI A

Variable Number	Variable Name	Percentage Respondents Reporting Output	Mean Percentage For Billets Reporting Output
VAR025	Intelligence Office Administration	80.3%	22.7%
VAR027	Briefs and Debriefs	72.3%	9.1%
VAR029	Budgets and Budgeting	49.8%	6.0%
VAR031	Charts and Audio-Visual Aids	44.6%	4.5%
VAR033	Counterintelligence Studies	12.6%	4.5%
VAR035	Data Analysis	54.5%	14.6%
VAR037	Decisions and Recommendations	80.6%	16.4%
VAR039	Estimates	40.3%	8.9%
VAR041	Intelligence Annexes to OPORDs	22.8%	5.3%
VAR043	Intelligence Collection Plans	31.4%	5.6%
VAR045	Intelligence Collection Tasking	49.1%	7.1%
VAR047	Intelligence Information Reports	33.2%	6.8%
VAR049	Intelligence Studies	47.4%	9.7%
VAR051	Interface with ADP-Telecommunications	48.9%	11.6%
VAR053	Orders-of-Battle	26.5%	4.7%
VAR055	Physical Security	50.5%	3.5%
VAR057	Tactical Plots	20.0%	4.6%

Based on 325 cases

indicating more than zero percent of their time working on that output; column 4 is the mean time spent in conjunction with that output by those respondents listed in column 3. The even variable numbers from VAR026 through VAR058 indicated the measure of applicability of the associated output to the naval intelligence community. These variables were not used in the research.

VAR061-VAR066/VAR069-VAR074/VAR077-VAR079 "Additional Outputs - First, Second, Third, Fourth, and Fifth" -

	# of responses	% of 325 respondents
First additional output	138	42.5%
Second additional output	58	17.8%
Third additional output	32	9.8%
Fourth additional output	14	4.3%
Fifth additional output	5	1.5%
	247	

VAR080 "Percentage Non-Intelligence Related Outputs" - VAR080 was not considered reliable because of two factors: (1) questionnaire responses often indicated that the percentage of time alloted to non-intelligence related outputs was derived by summing all other output percentages and subtracting from 100%; and (2) the second source of error was entered by the researchers, VAR080 being altered if a discrepancy existed in the questionnaire response [e.g., if the total percentage of a questionnaire did not equal 100% then VAR080 was changed to make the total correct]. VAR080 was not used in any analysis of the data.

VAR187-VAR206 "Output Variables - Second Questionnaire" - Table 2 in the data presentation section lists the aggregate results for the second iteration output variables in the same format as Appendix G, Table G-1. VAR205 ["Non-Intelligence Related Outputs"] was omitted for the same reasons that were discussed in the previous section concerning VAR080.

D. PRESENTATION OF EDUCATIONAL PARAMETER DATA

VAR012 "Respondent's Age" - Refer to personal parameter data.

VAR016 "Billet Subspecialty Code" - Refer to organizational parameter data.

VAR017 "Respondent's Subspecialty Code" - Refer to personal parameter data.

VAR018 "Respondent's Education Level" - Refer to personal parameter data.

VAR019 "Training Used in Billet" - Refer to personal parameter data.

VAR208 "Defense Intelligence School Graduate" - Refer to personal parameter data.

VAR087-VAR132 "Interview Data - Educational Levels USED" - The results of the 103 interviews pertaining to USED educational levels is displayed in Table G-2. Columns 3, 4, 5, and 6 represent the levels subjectively evaluated by the researchers as that being used by the billet holder in the performance of his duties. The column level values are defined in Table D-9 of Appendix D, and basically are defined as:

TABLE G-2

INTERVIEW DATA — EDUCATIONAL LEVELS USED

Variable Number	Variable Name	% Not Used "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR087	College Algebra	52.4%	35.9%	9.7%	1.9%
VAR088	Beginning Calculus	72.8%	16.5%	8.7%	1.9%
VAR089	Probability and Statistics	66.0%	22.3%	8.7%	2.9%
VAR090	Advanced Calculus	84.5%	7.8%	5.8%	1.9%
VAR091	Foreign Language	89.3%	7.8%	2.9%	0.0%
VAR092	USSR Area Studies	36.9%	25.2%	32.0%	5.8%
VAR093	China Area Studies	39.8%	27.2%	30.1%	2.9%
VAR094	Middle East Area Studies	53.4%	31.1%	15.5%	0.0%
VAR095	European Area Studies	65.0%	23.3%	11.7%	0.0%
VAR096	Latin American Area Studies	73.8%	18.4%	7.8%	0.0%
VAR097	African Area Studies	81.6%	13.6%	4.9%	0.0%
VAR098	Operations Analysis	50.5%	38.8%	10.7%	0.0%
VAR099	International Relations Theory	53.4%	27.2%	17.5%	1.9%
VAR100	Underwater Acoustics	45.6%	34.0%	18.4%	1.9%
VAR101	Sonar Systems	53.4%	29.1%	15.5%	1.9%
VAR102	Communication Systems	34.0%	36.9%	26.2%	2.9%
VAR103	Radar Systems	45.6%	31.1%	20.4%	2.9%
VAR104	Optics	61.2%	28.2%	9.7%	1.0%
VAR105	Lasers	66.0%	24.3%	8.7%	1.0%
VAR106	Collection Systems	34.0%	34.0%	27.2%	4.9%

TABLE G-2 (Continued)

INTERVIEW DATA — EDUCATIONAL LEVELS USED

Variable Number	Variable Name	% Not Used "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR107	National/Naval Budgetary Process	31.1%	38.8%	25.2%	4.9%
VAR108	Threat and Net Assessment	46.6%	29.1%	20.4%	3.9%
VAR109	National Security & Intelligence Organization	6.8%	21.4%	55.3%	16.5%
VAR110	Soviet Navy	32.0%	16.5%	40.8%	10.7%
VAR111	Soviet Air Force	39.8%	21.4%	34.0%	4.9%
VAR112	Soviet Ground Forces	44.7%	33.0%	20.4%	1.9%
VAR113	Soviet PVO	44.7%	30.1%	23.3%	1.9%
VAR114	Soviet Strategic Rocket Troops	44.7%	29.1%	23.3%	2.9%
VAR115	Soviet Merchant/Fish/Oceanographic	39.8%	29.1%	24.3%	6.8%
VAR116	Blue Forces Collection Systems	15.5%	16.5%	54.4%	13.6%
VAR117	U.S. Naval Forces	45.6%	30.1%	18.4%	5.8%
VAR118	U.S. Non-Naval Forces	65.0%	20.4%	11.7%	2.9%
VAR119	Allied Capability	46.6%	29.1%	23.3%	1.0%
VAR120	ADP System Design/Management	32.0%	35.0%	28.2%	4.9%
VAR121	ADP Hardware Operations	67.0%	11.7%	16.5%	4.9%
VAR122	ADP Software and Programming	65.0%	20.4%	11.7%	2.9%
VAR123	ADP Basic Interface Operations	12.6%	49.5%	33.0%	4.9%
VAR124	Briefing	13.6%	25.2%	46.6%	14.6%
VAR125	Writing	14.6%	28.2%	41.7%	15.5%

TABLE G-2 (Continued)

INTERVIEW DATA — EDUCATIONAL LEVELS USED

Variable Number	Variable Name	% Not Used "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR126	Organization of Thought	31.1%	17.5%	36.9%	14.6%
VAR127	Collection System Management	65.0%	11.7%	17.5%	5.8%
VAR128	PERT	78.6%	15.5%	4.9%	1.0%
VAR129	Management by Objectives	62.1%	20.4%	13.6%	3.9%
VAR130	Personnel Management	33.0%	31.1%	30.1%	5.8%
VAR131	Financial Management	35.9%	28.2%	29.1%	6.8%
VAR132	Labor Relations	49.5%	32.0%	14.6%	3.9%

Based on 103 interviews

"1" = not used
"2" = basic knowledge
"3" = working knowledge
"4" = expert knowledge

VAR137-VAR182 "Interview Data - Educational Levels NEEDED" - The results of the 103 interviews pertaining to NEEDED educational levels is displayed in Table G-3. Columns 3, 4, 5, and 6 represent the levels subjectively evaluated by the researchers as that being needed by the billet holder in the performance of his duties. The column level values are defined in Table D-9 of Appendix D, and basically are defined as:

"1" = not needed
"2" = basic knowledge
"3" = working knowledge
"4" = expert knowledge

VAR213-VAR343 "Delphi 'B' Data - Educational Levels - USED, NEEDED, and FUTURE" - These variables were used to obtain each respondent's estimate of the level of education (1) that he USED in the performance of his billet tasks [Table G-4], (2) that he NEEDED to properly perform his billet tasks [Table G-5], and (3) his prediction of the levels that will be needed ten years in the FUTURE [Table G-6]. The Delphi data represents the respondents' subjective judgments of the same educational areas coded from the interview data. Again, columns 3, 4, 5, and 6 represent the levels evaluated by the respondents with the same coding scheme defined in Table D-9 of Appendix D and used to describe the interview data.

TABLE G-3

INTERVIEW DATA — EDUCATIONAL LEVELS NEEDED

Variable Number	Variable Name	% Not Needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR137	College Algebra	45.6%	37.9%	13.6%	2.9%
VAR138	Beginning Calculus	67.0%	19.4%	10.7%	2.9%
VAR139	Probability and Statistics	46.6%	28.2%	18.4%	6.8%
VAR140	Advanced Calculus	77.7%	14.6%	5.8%	1.9%
VAR141	Foreign Language	68.0%	8.7%	21.4%	1.9%
VAR142	USSR Area Studies	31.1%	17.5%	29.1%	22.3%
VAR143	China Area Studies	33.0%	16.5%	30.1%	20.4%
VAR144	Middle East Area Studies	46.6%	17.5%	29.1%	6.8%
VAR145	European Area Studies	57.3%	17.5%	20.4%	4.9%
VAR146	Latin American Area Studies	61.2%	23.3%	15.5%	0.0%
VAR147	African Area Studies	68.0%	19.4%	12.6%	0.0%
VAR148	Operations Analysis	24.3%	30.1%	41.7%	3.9%
VAR149	International Relations Theory	41.7%	15.5%	28.2%	14.6%
VAR150	Underwater Acoustics	35.9%	20.4%	36.9%	6.8%
VAR151	Sonar Systems	43.7%	17.5%	35.0%	3.9%
VAR152	Communication Systems	31.1%	14.6%	39.8%	14.6%
VAR153	Radar Systems	39.8%	19.4%	35.0%	5.8%
VAR154	Optics	50.5%	19.4%	28.2%	1.9%
VAR155	Lasers	54.4%	20.4%	23.3%	1.9%
VAR156	Collection Systems	26.2%	12.6%	47.6%	13.6%

TABLE G-3 (Continued)

INTERVIEW DATA — EDUCATIONAL LEVELS NEEDED

Variable Number	Variable Name	% Not Needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR157	National/Naval Budgetary Process	27.2%	25.2%	25.2%	22.3%
VAR158	Threat and Net Assessment	44.7%	13.6%	22.3%	19.4%
VAR159	National Security & Intelligence Organization	6.8%	10.7%	37.9%	44.7%
VAR160	Soviet Navy	29.1%	9.7%	26.2%	35.0%
VAR161	Soviet Air Force	36.9%	9.7%	27.2%	26.2%
VAR162	Soviet Ground Forces	37.9%	16.5%	25.2%	20.4%
VAR163	Soviet PVO	38.8%	17.5%	23.3%	20.4%
VAR164	Soviet Strategic Rocket Troops	37.9%	17.5%	24.3%	20.4%
VAR165	Soviet Merchant/Fish/Oceanographic	33.0%	16.5%	23.3%	27.2%
VAR166	Blue Forces Collection Systems	10.7%	14.6%	32.0%	42.7%
VAR167	U.S. Naval Forces	38.8%	18.4%	31.1%	11.7%
VAR168	U.S. Non-Naval Forces	53.4%	14.6%	23.3%	8.7%
VAR169	Allied Capability	43.7%	6.8%	37.9%	11.7%
VAR170	ADP System Design/Management	26.2%	17.5%	34.0%	22.3%
VAR171	ADP Hardware Operations	64.1%	9.7%	10.7%	15.5%
VAR172	ADP Software and Programming	59.2%	16.5%	18.4%	5.8%
VAR173	ADP Basic Interface Operations	11.7%	23.3%	36.9%	28.2%
VAR174	Briefing	13.6%	12.6%	33.0%	40.8%
VAR175	Writing	12.6%	11.7%	28.2%	46.6%

TABLE G-3 (Continued)

INTERVIEW DATA — EDUCATIONAL LEVELS NEEDED

Variable Number	Variable Name	% Not Needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR176	Organization of Thought	29.1%	5.8%	17.5%	47.6%
VAR177	Collection System Management	52.4%	15.5%	15.5%	16.5%
VAR178	PERT	50.5%	17.5%	23.3%	8.7%
VAR179	Management by Objectives	39.8%	15.5%	30.1%	14.6%
VAR180	Personnel Management	30.1%	14.6%	24.3%	31.1%
VAR181	Financial Management	31.1%	16.5%	26.2%	26.2%
VAR182	Labor Relations	41.7%	22.3%	18.4%	17.5%

Based on 103 interviews

"1" = not needed or not used
"2" = basic knowledge
"3" = working knowledge
"4" = expert knowledge

TABLE G-4

DELPHI "B" DATA — EDUCATIONAL LEVELS USED

Variable Number	Variable Name	% Not Used "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR213	College Algebra	57.3%	31.2%	8.8%	2.7%
VAR216	Beginning Calculus	82.7%	10.8%	4.2%	2.3%
VAR219	Advanced Calculus	90.0%	5.8%	2.7%	1.5%
VAR222	Probability and Statistics	50.0%	34.2%	13.1%	2.7%
VAR225	Foreign Language	83.1%	12.3%	3.8%	0.8%
VAR228	USSR Area Studies	40.5%	34.0%	20.8%	4.6%
VAR231	China Area Studies	55.8%	29.5%	12.0%	2.7%
VAR234	Middle East Area Studies	48.6%	35.1%	14.7%	1.5%
VAR237	European Area Studies	52.5%	32.4%	12.0%	3.1%
VAR240	Latin American Area Studies	71.4%	22.8%	5.0%	0.8%
VAR243	African Area Studies	67.6%	27.4%	3.9%	1.2%
VAR246	Operations Analysis	46.3%	41.7%	10.8%	1.2%
VAR249	International Relations Theory	40.2%	38.6%	17.8%	3.5%
VAR252	Underwater Acoustics	39.4%	45.2%	13.5%	1.9%
VAR255	Sonar Systems	40.2%	45.9%	12.4%	1.5%
VAR258	Communication Systems	23.6%	51.4%	22.8%	2.3%
VAR261	Radar Systems	28.6%	55.2%	13.9%	2.3%
VAR264	Optics	43.5%	46.2%	9.2%	1.2%
VAR267	Lasers	50.8%	41.5%	6.5%	1.2%
VAR270	Collection Systems	11.2%	44.4%	36.3%	8.1%

TABLE G-4 (Continued)

DELPHI "B" DATA — EDUCATIONAL LEVELS USED

Variable Number	Variable Name	% Not used "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR278	Threat and Net Assessment	18.1%	41.7%	30.9%	9.3%
VAR281	National Security & Intelligence Organization	6.9%	39.0%	40.2%	13.9%
VAR284	Soviet Navy	13.9%	23.6%	45.9%	16.6%
VAR287	Soviet Air Force	19.6%	40.4%	33.8%	6.2%
VAR290	Soviet Ground Forces	35.8%	48.1%	14.6%	1.5%
VAR293	Soviet Strategic Rocket Troops	32.0%	45.6%	18.9%	3.5%
VAR296	Soviet Merchant/Fish/Oceanographic	22.8%	45.9%	24.3%	6.9%
VAR299	U.S. Naval Forces	11.5%	39.2%	42.7%	6.5%
VAR302	U.S. Non-Naval Forces	17.7%	60.4%	20.0%	1.9%
VAR305	Allied Capability	16.9%	58.5%	22.7%	1.9%
VAR308	ADP System Design/Management	42.9%	41.3%	11.2%	4.6%
VAR311	ADP Hardware Operations	44.8%	41.7%	10.4%	3.1%
VAR314	ADP Software and Programming	55.0%	36.9%	5.0%	3.1%
VAR317	ADP Basic Interface Operations	33.8%	47.3%	16.2%	2.7%
VAR320	Management by Objectives	16.6%	41.3%	32.4%	9.7%
VAR323	Personnel Management	17.8%	37.1%	36.3%	8.9%
VAR326	Financial Management	35.1%	40.2%	19.7%	5.0%
VAR329	National/Naval Budgetary Process	38.2%	36.3%	21.2%	4.2%
VAR332	Labor Relations	57.5%	32.0%	8.1%	2.3%
VAR335	Briefing	2.7%	17.0%	49.4%	30.9%
VAR338	Writing	0.4%	8.9%	49.4%	41.3%
VAR341	Organization of Thought	0.4%	7.7%	47.1%	44.8%

Based on 259 Delphi responses

TABLE G-5

DELPHI "B" DATA — EDUCATIONAL LEVELS NEEDED

Variable Number	Variable Name	% Not Needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR214	College Algebra	54.4%	31.3%	12.4%	1.9%
VAR217	Beginning Calculus	76.1%	15.4%	6.9%	1.5%
VAR220	Advanced Calculus	86.0%	8.5%	4.3%	1.2%
VAR223	Probability and Statistics	35.1%	37.8%	24.7%	2.3%
VAR226	Foreign Language	64.0%	21.7%	12.4%	1.9%
VAR229	USSR Area Studies	30.9%	30.9%	33.2%	5.0%
VAR232	China Area Studies	48.4%	26.7%	22.1%	2.7%
VAR235	Middle East Area Studies	45.5%	32.3%	19.1%	3.1%
VAR238	European Area Studies	49.0%	29.2%	17.5%	4.3%
VAR241	Latin American Area Studies	65.4%	24.5%	9.3%	0.8%
VAR244	African Area Studies	62.3%	28.0%	8.6%	1.2%
VAR247	Operations Analysis	28.2%	46.3%	22.8%	2.7%
VAR250	International Relations Theory	30.1%	39.8%	25.1%	5.0%
VAR253	Underwater Acoustics	32.4%	36.7%	28.2%	2.7%
VAR256	Sonar Systems	31.3%	42.1%	23.9%	2.7%
VAR259	Communication Systems	17.0%	43.6%	34.4%	5.0%
VAR262	Radar Systems	22.8%	47.9%	25.5%	3.9%
VAR265	Optics	32.9%	43.4%	22.1%	1.6%
VAR268	Lasers	34.9%	44.2%	19.4%	1.6%
VAR271	Collection Systems	9.7%	28.6%	46.7%	15.1%
VAR279	Threat and Net Assessment	12.7%	33.6%	39.8%	13.9%

TABLE G-5 (Continued)

DELPHI "B" DATA — EDUCATIONAL LEVELS NEEDED

Variable Number	Variable Name	% Not Needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR282	National Security & Intelligence Organization	5.4%	28.2%	47.1%	19.3%
VAR285	Soviet Navy	12.7%	19.7%	42.5%	25.1%
VAR288	Soviet Air Force	16.7%	35.3%	37.2%	10.9%
VAR291	Soviet Ground Forces	30.6%	47.3%	19.8%	2.3%
VAR294	Soviet Strategic Rocket Troops	28.2%	40.9%	27.8%	3.1%
VAR297	Soviet Merchant/Fish/Oceanographic	17.4%	40.5%	34.4%	7.7%
VAR300	U.S. Naval Forces	10.1%	27.9%	49.6%	12.4%
VAR303	U.S. Non-Naval Forces	15.5%	46.9%	33.3%	4.3%
VAR306	Allied Capability	13.6%	44.2%	37.6%	4.7%
VAR309	ADP System Design/Management	32.4%	33.2%	27.4%	6.9%
VAR312	ADP Hardware Operations	37.1%	34.0%	25.1%	3.9%
VAR315	ADP Software and Programming	40.7%	38.4%	18.2%	2.7%
VAR318	ADP Basic Interface Operations	23.6%	41.1%	30.6%	4.7%
VAR321	Management by Objectives	12.4%	28.2%	43.6%	15.8%
VAR324	Personnel Management	14.7%	29.0%	43.6%	12.7%
VAR327	Financial Management	27.8%	32.4%	32.8%	6.9%
VAR330	National/Naval Budgetary Process	31.7%	30.9%	30.1%	7.3%
VAR333	Labor Relations	52.9%	28.6%	15.1%	3.5%
VAR336	Briefing	1.9%	11.6%	47.5%	39.0%
VAR339	Writing	0.4%	4.6%	43.6%	51.4%
VAR342	Organization of Thought	0.4%	3.5%	38.6%	57.5%

Based on 259 Delphi responses

TABLE G-6

DELPHI "B" DATA — EDUCATIONAL LEVELS IN FUTURE

Variable Number	Variable Name	% Not needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR215	College Algebra	49.2%	34.1%	14.0%	2.7%
VAR218	Beginning Calculus	68.2%	21.7%	7.8%	2.3%
VAR221	Advanced Calculus	80.9%	12.8%	4.3%	1.9%
VAR224	Probability and Statistics	29.1%	32.9%	30.6%	7.4%
VAR227	Foreign Language	60.5%	17.8%	18.6%	3.1%
VAR230	USSR Area Studies	28.7%	26.4%	37.2%	7.8%
VAR233	China Area Studies	45.5%	23.0%	26.8%	4.7%
VAR236	Middle East Area Studies	44.0%	29.6%	20.2%	6.2%
VAR239	European Area Studies	47.1%	26.5%	21.0%	5.4%
VAR242	Latin American Area Studies	61.5%	24.5%	11.7%	2.3%
VAR245	African Area Studies	56.8%	30.0%	10.5%	2.7%
VAR248	Operations Analysis	25.6%	35.7%	33.3%	5.4%
VAR251	International Relations Theory	28.3%	31.0%	32.2%	8.5%
VAR254	Underwater Acoustics	30.6%	32.2%	32.6%	4.7%
VAR257	Sonar Systems	29.8%	35.3%	20.6%	4.3%
VAR260	Communication Systems	16.3%	34.5%	39.9%	9.3%
VAR263	Radar Systems	21.3%	41.5%	31.0%	6.2%
VAR266	Optics	28.3%	37.2%	31.0%	3.5%
VAR269	Lasers	28.3%	37.2%	29.8%	4.7%
VAR272	Collection Systems	9.7%	25.3%	43.6%	21.4%
VAR280	Threat and Net Assessment	12.4%	24.0%	42.2%	21.3%

TABLE G-6 (Continued)

DELPHI "B" DATA — EDUCATIONAL LEVELS IN FUTURE

Variable Number	Variable Name	% Not Needed "1"	% Basic "2"	% Working "3"	% Expert "4"
VAR283	National Security & Intelligence Organization	5.8%	22.9%	45.3%	26.0%
VAR286	Soviet Navy	12.0%	16.3%	39.9%	31.8%
VAR289	Soviet Air Force	15.5%	30.6%	38.4%	15.5%
VAR292	Soviet Ground Forces	27.9%	44.2%	24.4%	3.5%
VAR295	Soviet Strategic Rocket Troops	26.4%	37.6%	29.5%	6.6%
VAR298	Soviet Merchant/Fish/Oceanographic	16.3%	36.4%	36.0%	11.2%
VAR301	U.S. Naval Forces	9.3%	26.1%	45.9%	18.7%
VAR304	U.S. Non-Naval Forces	14.8%	41.6%	37.7%	5.8%
VAR307	Allied Capability	12.8%	37.7%	41.2%	8.2%
VAR310	ADP System Design/Management	24.8%	29.5%	32.6%	13.2%
VAR313	ADP Hardware Operations	27.5%	33.7%	31.4%	7.4%
VAR316	ADP Software and Programming	29.8%	38.0%	26.4%	5.8%
VAR319	ADP Basic Interface Operations	15.9%	32.2%	41.1%	10.9%
VAR322	Management by Objectives	10.1%	25.7%	39.3%	24.9%
VAR325	Personnel Management	13.2%	25.2%	43.3%	18.2%
VAR328	Financial Management	25.2%	27.9%	36.0%	10.9%
VAR331	National/Naval Budgetary Process	27.1%	29.1%	32.2%	11.6%
VAR334	Labor Relations	48.1%	29.1%	17.8%	5.0%
VAR337	Briefing	1.9%	8.5%	45.0%	44.6%
VAR340	Writing	0.4%	3.5%	38.4%	57.8%
VAR343	Organization of Thought	0.4%	2.3%	33.3%	64.0%

Based on 259 Delphi responses

APPENDIX H

80-COLUMN PRINT OF "INTELL" DATA BASE (QID12CDS)

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NOSIC                    19010OPERATIONS OFFICER                  308830DC22001
/SINCLAIR /S. /MARTEL                       436163016350000007210E00000118   014062002
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CURRENT INTEL (OPINTEL) PRODUCTNBDI008                                       0002004
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COMMENTS SUPPRESSED                                                            12007
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2223334443332222224443332222221222332223333333333222222222244444444444          1052008
NOSIC                    19070HEAD,MARITIME OPERATIONS BRANCH     308830DC22011
/LOUIS /A. /ROGERS                          435111000000000007210E7210E13   100212012
02010031000100010001005102010101000100010001000100210100000100210001          2013
COUNSELING SUBORDINATES          T  003ESTABLISHING REQUIREMENTS         B  0052014
INTER AGENCY LIAISON             F  005OUTGOING REPORTS                  A  0152015
                                    000000                                      2016
COMMENTS SUPPRESSED                                                            12017
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334444334111111111444333222222222222323333333333333311111112224444444444    1052018
NOSIC                    19300ADP OPINTEL PRODUCTION MANAGER      308830DC22021
/EUGENE /J. /RAIRDAN                        43316301350999997210 9502P157   008022022
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                                   000                                       0002025
                                   000999                                       2026
COMMENTS SUPPRESSED                                                            12027
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22222233333322222223333333333334442332223443333333111111111222333333        1052028
NOSIC                    19230SENIOR WATCH OFFICER                308830DC22031
/WILLIAM /A. /THOMAS                        435163013500000007210E0000043   010272032
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NISC SUITLAND           00999HEAD, REPRODUCTION BRANCH                    681660DC22041
/CHARLES /C. /SHERWOOD                         4446632999999990000000000004   100132042
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COMMENTS SUPPRESSED                                                               12047
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NISC HOFFMAN            05050HEAD ASM TASK FORCE                          681660VA22051
/HERBERT /E. /SMETHERAM                         54011100000000099999721OE4    006042052
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COMMENTS SUPPRESSED                                                               12057
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NISC SUITLAND           05140HEAD,PHOTO DIVISION                          681660DC22061
/JAMES /E. /TUTHILL                             4476632000000000000000000004  100022062
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PHOTOGRAPHIC SUPPORT MANAGEMENT CDF079                                          0002064
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NISC SUITLAND           00510HEAD, COMMAND BRIEFING TEAM                  681660DC22071
/RICHARD /W. /JOHNSTON                          435163511059999000000000001    010082072
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PRODUCTION COORDINATION              BDF050                                     0002074
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                                        000000                                     2076
COMMENTS SUPPRESSED                                                               02077
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01001500002001502002000000000000000000000000000000000000000000                 011032078
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/EDWIN /L. /HERRING                     644111000000000000007210E13   007092082
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PERSONNEL SECURITY                AQT005                                 0002084
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                                     000000                                 2086
COMMENTS SUPPRESSED                                                        02087
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025020005020003001001000010000000000000000000500000500000000005        001032088
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1113341111111111111111111111111111334233233233334334333333334444444444   1052088
NISC HOFFMAN             00441HEAD, PRODUCTION MANAGEMENT DIVISION 681660VA22091
/ROBERT /P. /STEWART                    43311100000000000000008710P4   100012092
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NISC SUITLAND            00195HEAD, USW TECHNOLOGY DEPT            681660DC22101
/EARL /L. /DEWISPELAERE                 64411200000000072109721091389  007232102
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2222223332222222222233333222222222222222222223333333333333333333333333   1052108
NISC SUITLAND            05190HEAD, IMAGERY ANALYSIS DEPT          681660DC22111
/HAROLD /T. /KELLY                      539163013500000000000000014    009032112
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/WILLIAM /M. /RUSS, /JR.                       5401120110000007210972 10S1   002162122
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34423233323322223322223332332223332221222222343333333344233344344344        1052128
NISC SUITLAND                 00105EXECUTIVE OFFICER                  681660DC22131
/BURKE /E. /EAKLE                              64913100000000000000007210S229   002202132
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                                     000000                                   2136
COMMENTS SUPPRESSED                                                           12137
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NISC HOFFMAN                  00435HEAD, BALLISTIC MISSILE SYSTEM DIV   681660VA22141
/KEITH /M. /WERNER                             43211200000000007210972 10P139   100132142
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LIAISON                             F  005                                  0002144
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NISC HOFFMAN                  00505HEAD, PRODUCTION MANAGEMENT DIVISION 681660VA22151
/DAVID /A. /COTNER                             4351320000000007210E7210S19   006152152
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/RICHARD /H. /DOLLIVER                        44211200000000000007210E13  005122162
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NISC SUITLAND           00500HEAD, INFORMATION SYSTEMS DIVISION       681660DC22171
/GREGORY /A. /MICHAELS                        434163013550000999999999917  010302172
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NISC HOFFMAN            00515HEAD, COMMAND AND CONTROL DIV            681660VA22181
/GROVER /S. /PERKINS, /JR.                    4391610161500000000000000019  100142182
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CONTRACT SUPPORT                 BDE003                                     0002184
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3344443342232222233343332222222322312312323434443333323334434 4344           1052188
NISC SUITLAND           00200HEAD, ASW APPLICATIONS DIV               681660DC22191
/DAVID /H. /KRIEGER                           43111200000000000000000000013  005022192
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COMMENTS SUPPRESSED                                                           12197
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/JAMES /A. /SAGERHOLM                      646112011100000967099670913    001072202
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NISC SUITLAND           00315ASSISTANT FOR PLANS AND PROGRAMS    681660DC22211
/ERNEST /W. /LIETZAN, /JR.                 54216300000000000000000002    018122212
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NIPSSA HOFFMAN          00500COMMS PLANS/MANAGEMENT OFFICER       634200VA22221
/WILLIAM /E. /SMITH                        434163013501355931OS00000257   005202222
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INTELCOMM RESOURCE MGT        CFD025INTELCOMM PLANS AND MANAGEMENT  BF0252224
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                                    000000                                    2226
COMMENTS SUPPRESSED                                                       12227
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/JOHN /S. /LIERMAN                         43616300000000 9210P7210P13    012132232
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IDHS RESOURCE MANAGEMENT        BF0020IDHS PLANS AND MANAGEMENT      BF0202234
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/LEONARD /E. /TILLERSON                           6451630135013100000071 60P17   016282282
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NOSIC                     19320HEAD, SURFACE DESK COC                    308830DC22291
/CHARLES /W. /KIRCHOFF                            433163099999997210E000001    006122292
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COMMENTS SUPPRESSED                                                                 12297
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NOSIC                     19000DIRECTOR                                  308830DC22301
/WALTER /W. /SALMON /JR.                          54011101105000072 10P7210P13   002122302
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COMMENTS SUPPRESSED                                                                 12307
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NOSIC                     19030SPECIAL PROJECTS OFFICER                  308830DC22311
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06RANK /A. /MITCHELL                          64811109999999999997210E22    006024002
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/R. /W. /MORSCHES                             540163013509999999999999219   017034012
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/VINCENT /H.#/DE /VITO                        44311101100110899997210E11    003604022
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NATIONAL LEVEL(USIB JCS)SUPPORT DEJ025                                     0004034
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COMMENTS SUPPRESSED                                                          14037
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/THOMAS /E. /LEACH                        437163013559999999999999990     007114042
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STAFF SUPPORT                         BGI010                               0004044
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/THOMAS /A. /BROOKS                       538163099999999999999111P4     016024052
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SPECIAL PROJECT STAFF SUPPORT   BFK023INTELLIGENCE LIAISON               EF 0104054
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CNA                        50340ANALYST OPS EVALUATION GROUP           999360VA34061
/RICHARD /E. /WILTAMUTH                   43616109999999999999999942    100044062
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DATA COLLECTION                       CLM020                               0004064
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/JOSEPH /E. /PELTON                         4371630163513559999721OE13    009034072
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PRODUCTION TASKING COORDINATION BF 020DISSEM OF PUBLICATIONS COORD     AF 0154074
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COMMENTS SUPPRESSED                                                           04077
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/LLOYD /H. /BEACHY                          4381630135099999999999919    014304082
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                                   000000                                      4086
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/HOLLIS /W. /HARMON                         43216301310110099999999912    003064092
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/PAUL /R. /BORCIK                           43216301105999999999999992    004074102
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/MERRILL /D. /REICH                          54416109999999997210E99999228    002014112
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/THOMAS /M. /TAIT                            43811209999999997210E7210 423   003264122
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NFOIO                      62930DIR OF SUPPORT DIV                          629300MD34131
/STEPHEN /PORTENLANGER                       43616301350110572l0E7210S21      007284132
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LIAISON WITH NATIONAL AGENCY      DEJ005SIGINT PRODUCT DISTRIBUTION         AF 0054134
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COMMENTS SUPPRESSED                                                               04137
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CTF 168                    00300OPERATIONS OFFICER                          999140VA34141
/ZENO /J. /PFAU, /JR.                        436163011009999999999999929      011254142
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CTF 168                     00200DEP     TY COMMANDER                       999140VA34151
/WILLIAM /D. /DERRYBERRY                          5371630135099997210E9610S1     014164152
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CTF 168                     99999PROJECT OFFICER                            999140VA34161
/W. /R. /KOEPKE                                   4331630111099999999999999 1     003264162
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/RICHARD /R. /PARISEAU                            4351120999999999999999994     001104172
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RESEARCH                                DIJ015                                   0004174
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/RICHARD /F. /CASEY                               5391630999999999999999994     018244182
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/ROBERT /G.#/MC /GANN                          5371110999999997210E7210E2     005114192
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CONFERENCES AND MEETINGS            EF 005INTELLIGENCE SUPPORT                  0154194
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/MARSHALL /W. /BRONSON                         43516301100999999999999992     006244202
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/STANLEY /E. /KRASNEIWSKI                      43413209999999997210E7210S2    100064212
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/LAWRENCE /M. /CLARKE, /JR.                    43216301350135599999 7210E22   008054222
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/JOHN /W. /OVERSTREET                      4351630111099999999999999123   004044232
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INTEL COLLECTION MANAGEMENT     BLM015                                     0004235
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COMMENTS SUPPRESSED                                                          04237
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COMNAVINTCOM              00640HEAD MANPOWER TRAINING DIV            000150VA34241
/LAWRENCE /F. /REDDER                      441163013509999999999999915    010484242
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                                   000                                     0004244
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COMMENTS SUPPRESSED                                                          14247
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DIA                       01380ADI(N)                                634150DC34251
/JOHN /F. /BARLOW                          65113109999999999999999991     100364252
00010081000100210001000109010001000100010001000100010001000100010001          4253
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COMMENTS SUPPRESSED                                                          24257
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COMNAVINTCOM              01780HEAD OSIS DIV                         000150VA34261
/THOMAS /R. /CHANDLER                      437163011009999999997160P4     012074262
00210101002100110009000903590009000900090009000900090501000900090009          4263
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COMMENTS SUPPRESSED                                                          14267
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/JOEY /W. /HEGEMAN                                540163011009999721OE9999912    009174272
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                                           000                                     0004274
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                                           000000                                     4276
COMMENTS SUPPRESSED                                                                  04277
211113333333333333333333333333333311134444413132                                   1014278
211113333333333333333333333333333311134444413132                                   1024278
00502501001001001001000000500000000000000000000500000000005005                   021034278
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2342343333332222223332332332332222223222222223343343343343333333333              1054278
COMNAVINTCOM                01460DEPUTY HEAD FOREIGN OPS DIVISION              000150VA34281
/GEORGE /E. /FISHER                               438111011001105721OS721OS4     004304282
0401008100090021000900090101000900090009015100510009000900090051OO09             4283
                                           000                                     0004284
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                                           000015                                     4286
COMMENTS SUPPRESSED                                                                  04287
111113332322311221111233222223222111233311211 2                                    1014288
1111133333232222223133333333333311123331121 12                                     1024288
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2232332222222222222222332222332221121122233334442232222222344444444               1054288
COMNAVINTCOM                00440HEAD ADMIN PERS TRAINING DEPT                 000150VA34291
/ROBERT /W. /MILLER                               5411630112099999999999992      005154292
0091003102010001000100210051000100010001000100010001003100010081OO01             4293
                                           000                                     0004294
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                                           000050                                     4296
COMMENTS SUPPRESSED                                                                  14297
1111111111111111111112121111111111111112111111221                                  3014298
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01500501001500301500000000200000100000000000030000060000100 15                   021034298
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DIA                         01540INTEL OFFICER                                 634150DC34301
/ROBERT /J. /HOWIE                                43716301355999999999973 10S1   008014302
0009010100090009000906010051005100090009000900090009000900510009OO110009         4303
INDICATIONS AND WARNING              DEI010                                        0004304
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COMMENTS SUPPRESSED                                                                  04307
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/LUKE /F. /MAYER, /JR.                     434163611009999999997210E1    009124312
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INTEL SUPPORT TO OFFICE        IJD048WRITING FOR TF COMMANDER          ADF0104314
                                    000                                     0004315
                                    000000                                     4316
COMMENTS SUPPRESSED                                                           04317
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COMNAVINTCOM              00200NATIONAL SYS SUPPORT COORDINATOR      000150VA34321
/GARY /H. /ELLIS                           437111099999999999997210E43    006064322
035100051000100010001000102010001000100010001000100010001000100000001         4323
INTERFACE WITH GOVT NAVY ORGANIZEFG030                                      0004324
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COMMENTS SUPPRESSED                                                           04327
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COMNAVINTCOM              01360HEAD REQUIREMENTS MANAGEMENT DIV      000150VA34331
/P. /F. /MC/KNIGHT                         4381630135099999999999999212   014054332
015100051000900090021002103810009002101010009003510101005100090011000 9         4333
INTEL COLLECTION REQUIREMENTS    BLM005                                     0004334
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                                    000000                                     4336
COMMENTS SUPPRESSED                                                           14337
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COMNAVINTCOM              72000HEAD RESERVE PROGRAMS DEPT            000150VA34341
/CLAYTON /M. /CONGER                       64416371357135599999999991     008024342
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RESERVE INTEL PROBLEMS           BC 020                                     0004344
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                                    000003                                     4346
COMMENTS SUPPRESSED                                                           04347
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/L. /L. /HERZOG                           54216301350131099999999999159   007504352
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COMMENTS SUPPRESSED                                                          04357
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COMNAVINTCOM              00530ASSISTANT FOR OFFICER DISTRIBUTION   000150VA34361
/RICHARD /J. /SCHLAFF                     537163013501355999999111P4      015034362
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COMMENTS SUPPRESSED                                                          14367
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DIA                       00670SIGINT AND SPECIAL SENSORS DIV       634150DC34371
/CHARLES /R. /CLARK                       64211101120999999997210P1       100334372
00010051010100510001010102010001000101010301000100010001000100010001         4373
EVAL OF RESOURCE EFFECTIVENESS  BEF010                                     0004374
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COMMENTS SUPPRESSED                                                          14377
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DIA                       00810INTELLIGENCE OFFICER                 999380DC34381
/DONALD /A. /KAHLER                       43813109999999721OE7210S01      100204382
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TRAINING(SPECIALIZED INSTRUTION)T  009LOGISTICS                       BC 0034384
PERSONNEL                        AB 005                                    0004385
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COMMENTS SUPPRESSED                                                          14387
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/WILLIAM /C. /MARSHALL                    437163013501355999999999914    008154392
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COMMENTS SUPPRESSED                                                          04397
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DIA                        01150FACULTY MEMBER                         999390DC34401
/KENNETH /M. /KIRKPATRICK                 4381310999999997210E7120P42    100134402
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/TRENTWELL /M. /WHITE                     5421630110099999999640 4       008014412
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/CECIL /G. /COWLING                       44016301350999721OP999991     004184422
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/JOHN /A. /MOSER                                 53716301635110599999999949    008014432
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TEACHING INTEL                           T  040COUNSELING INTEL OFFICERS        ET 0204434
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DIA                            01990METEOROLOGIST                          999400DC34441
/WILLIAM /STEVENS                                54218101530999861OS99999428   100114442
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DIA                            00740INTEL OFFICER                          634150DC34451
/STEVE /F. /KIME                                 43316301120110071200999958    002134452
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/GORDON /R. /WEIHMILLER                          43211109999999721OE7100P43    100044462
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PROCESSING FOREIGN VISIT REQUESTFQ 030SUPERVISE FOREIGN INTEL OFFICERSAFT0104464
SUPERVISE FOREIGN MILPERS IN DODAFQ020                                              0004465
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/ALLEN /L. /BADER                                540111099999997210E7210 113   006074472
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/JOHN /E. /BUCKLEY                               542131099999997210E999991     100464482
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DIA                         01670INTEL OFFICER                         634150DC34491
/IAN /M. /BAILEY                                 43611109999999 7210E8121S4    100064492
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DIA                         00181DEPUTY DIR FOR PLANS ANALYSIS DIV     634150DC34501
/BENJAMIN /T. /SUTHERLIN                         64313109999999 9670721084     002134502
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COMMENTS SUPPRESSED                                                              04507
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/DAVID /B. /ELDRIDGE                         64213109999999988820P999991    100244512
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DIA                         01280INTEL OFFICER                             999380DC34521
/RICHARD /E. /LOVEJOY                        43713109999999997210E8351P2    100114522
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S AND T PRODUCTION REQUIREMENTS BDF040S AND T PRODUCTION TASKING        BD 0204524
S AND T PRODUCTION SCHEDULING   BD 020S AND T PRODUCTION REGISTRY       BD 0104525
GEN BOARDS STUDY GROUPS              005005                                      4526
COMMENTS SUPPRESSED                                                              04527
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DIA                         09670SOVIET WARSAW PACT DIV MIL INTEL OFF 999400DC34531
/EDARD /TYREE                                434163013509999999999999991     009024532
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DIA                         00260INTEL OFFICER                             634150DC34541
/HARRY /R. /BLAKE, /JR.                      55113109999999997210E999991    100404542
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WORKING JCS ACTION                BDE065                                      0004544
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COMMENTS SUPPRESSED                                                              14547
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/WINSTON /W. /CORNELIUS                               5461110110099992710E2710E412   008134552
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COMMENTS SUPPRESSED                                                                             14557
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DIA                            02020CHIEF TARGET DIV                                     999400DC34561
/ROBERT /E. /ADAMS                                    650111099999997210S7210S4      011144562
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TARGET INTELLIGENCE                  DFI020                                             0004564
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COMMENTS SUPPRESSED                                                                             04567
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DIA                            00330INTEL OFFICER                                        999410DC34571
/GEORGE /J. /HEIM                                     44016301355999999999999914     015224572
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COMMENTS SUPPRESSED                                                                             04577
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DIA                            06317DIA LIAISON TO NAT SECURITY AGENCY                   999420DC34581
/CHRISTOPHER /BILLINGSLEY                             43416301325999999999999413     008024582
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/JAY /G. /LARGREGS                             434132099999998110P0968442    100124592
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/GERALD /R. /SCHLOMAN                          43816301350999 97210E098031   011484602
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COMMENTS SUPPRESSED                                                              04607
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/PETER /J. /DOERR                              541111011009999 7210E7210S4   004104612
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DIA                         01440INTEL OFFICER                              634150DC34621
/DOUGLAS /O. /CHIPLOW                          43711101100999 97210E999991   100124622
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COMMENTS SUPPRESSED                                                              14627
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/CHARLES /V. /CHOYCE                       646131099999997210P7210S414   002224632
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COMMENTS SUPPRESSED                                                          04637
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/NORMAN /K. /BAKER                         54613109999999999999991139    002484642
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COMMENTS SUPPRESSED                                                          14647
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/FRANCIS /A. /BAUSCH                       5411630135099999999999994     019144652
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RESEARCH AND DEVELOPMENT            BDI005                                  0004654
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/BILLY /C. /ECK                            4431630135099999999999994     013254662
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DIA                      00700CHIEF CONTROL                           634150DC34681
/PAUL /H. /DAVIS                             64916309999999999999999991    020154682
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/RONALD /C. /TARKOWSKI                       53816301310999972IOE9999945    009114692
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EVALUATION OF PLANS AND PROGRAMSBCD005                                       0004694
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/CECIL /R. /VOLLMER                                 64913109999999998400P7210S4     002014712
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MANAGEMENT OF INTEL PRODUCTION  BCF029                                            0004714
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COMMENTS SUPPRESSED                                                                 04717
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COMMENTS SUPPRESSED                                                                 04737
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DIA                            00240XO DEP DIR FOR PLANS                         634150DC34741
/THOMAS /E. /CARNELL                                439163099999999999999994        012144742
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AS DIRECTED BY HIGHER AUTHORITY     075                                           0004744
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/FORREST /F. /HEDDEN                                   543163513559999999999999994     016014762
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INTERFACE WITH INTEL AGENCIES    DEF005                                               0004764
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/WILLIAM /S. /KOSAR, /JR.                              544151099999998110P9131P4      100524782
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COMMENTS SUPPRESSED                                                                      24787
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CURRICULUM DEVELOPMENT                BCT015SPEAKER COORDINATION                AF 0254794
TRAINING MONITOR                      BCF020STUDY AND PROFESSION DEVELOPMENTBT 0154795
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/JAMES /L. /YATES                                 5421310999999997210E0726043  100084802
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/PHILIP /M. /REITZEL                       44311101100999972 10E9501P113   003794852
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/PAUL /E. /SPEIRER, /JR.                   54216301310999972l0E99999115   008264872
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PROCESSING JCS PAPERS          DFJ040PROCESSING OTHER NAT LEVEL DOC  DFJ0204874
RESPONDING TO SECDEF/JCS TASKINGBEF015                                  0004875
                                  000010                                   4876
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DIA                    00770ASST DEP DIR DIRECTORATE FOR ATTACHE 634150DC34881
/WALTER /N. /MORGAN                        6521630110099997210P9999941    020134882
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/DONALD /C. /ORD                          5431310999999997210E999994     100424892
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/LEON /J. /ENTAS                          4371637135713559999999991135  011024902
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SIOP DRILLS                    BFK003INTEL EXERCISES                BFK0034904
SERE                           BCT002                                  0004905
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/JAMES /N. /HOLLARN                            4331630163513559999999999913   007134912
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INITIATIVE ESTIMATES                FJ 010                                     0004914
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/CHARLES /E. /BOLING                           4331630135099999999999999916   013424922
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CTF 168                  99999RESOURCE MANAGER (CIVILIAN)             999140VA34941
/SHIRLEY /F. /HELMIG                           1409999999999999999999999992   100724942
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OFFICE OF CNO(PENTAGON)   99999UNDERSEA WARFARE PLOT COOR(CIVILIAN) 999360DC34951
/DAVID /A. /SPETRINO                          137999999999999999999999239   100404952
0301005100010021000903910051005100090009001000090021005100000110001          4953
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                                      000005                                  4956
COMMENTS SUPPRESSED                                                          14957
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1111133333323333333333332222333332122333313121                              1024958
99999999999999999999999999999999999999999999999999999999999              000034958
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99999999999999999999999999999999999999999999999999999999999999999          0054958
OFF OF THE CNO(PENTAGON) 09445DIR EST USIB DEPT SUPPORT DIV          999360DC34961
/E. /L. /JOHNSON                              6451630110011057210P7120D5    015074962
0101001100010011001100010251030100510001000100010101000100010001 0001       4963
OPNAV INTEL SUPPORT                 BEF012SUPPORT FOR DNI USIB            DEF0054964
                                      000                                  0004965
                                      000000                                  4966
COMMENTS SUPPRESSED                                                          04967
1221343333324111111244433333334431113444114222                              1014968
1221344333324222222234443333333443111344411422 2                            1024968
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133133133133111233111111222111113224442222222222222222222222220             1044968
44444444422222222233333322233323332222332332222222233233111444444444       1054968
DIA                           01280INTEL OFF                          999380VA34971
/TERRY /A. /DAMON                             5441310999999997210E7210E2128  003404972
0801000900090009000900051000900090009000900090151000900090009                4973
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                                      000                                  0004975
                                      000000                                  4976
COMMENTS SUPPRESSED                                                          14977
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01502400000500004000000000000000000000000015000000000000001              021034978
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22334422222222222222222222222222333222222333333222233344111333333444        1054978
DIA                           00500INTEL OFF                          634150DC34981
/MARION /J. /KLECZEWSKI                       649163011009999 7210E9999914   018204982
0101010100310009000900310101000900090031005100090031010100090009 0009       4983
INTEL COLLECTION REQUIREMENTS       BLM010IMAGERY EXPLOITATION            IJP0104984
DEVELOPMENTS PLANNING               BCF010USIB PARTICIPATION              DEF0104985
SANITIZATION//DECONTROL             AF0003003                                 4986
COMMENTS SUPPRESSED                                                          14987
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/WENDELL /J. /FURNAS                    6571630999999997210P9999921   031434992
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                                      000                                0004995
                                      000005                                4996
COMMENTS SUPPRESSED                                                        04997
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05000500201001001000100000000000000000000000000001000001010           011034998
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44444433333333333333333333333344422222233344433333333334444444444        1054998
DIA                    01200CHIEF TECH AND SUB SYS DIV              999380VA35001
/JOHN /W. /JOHNSTON                     64813109999999999998110P4     100055002
015101010051000100010001005100010001000100010051005100010001000100010001   5003
INTEL PROD TASKING MONITORING    BLM050                                  0005004
                                      000                                0005005
                                      000005                                5006
COMMENTS SUPPRESSED                                                        05007
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COMNAVINTCOM           99999HD NAVINT PROCESSING DATA BASE SYS      000150DC35011
/SAMUEL /F. /CARR                       440163013509999999999999435   011275012
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                                      000                                0005014
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                                      000007                                5016
COMMENTS SUPPRESSED                                                        05017
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009008001010006008001000010000000000000000000400000002000000005       001035018
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1112223333333333322222222222222223344333233333233111111233111333333333   1055018
COMNAVINTCOM           99999PROJECT MANAGER                         000150VA35021
/GARY /W. /GARTON                       1349999999999999999999999909  016345022
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CONTRACT MANAGEMENT              CDF010                                  0005024
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                                      000000                                5026
COMMENTS SUPPRESSED                                                        05027
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DIA                         03910CHINA ASIA DIV DIRECTORATE FOR INTEL 634150DC35031
/ROBERT /E. /PYLE                            64816301100999999999999913    020075032
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COMMENTS SUPPRESSED                                                         15037
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/ROBERT /RENY                                43816301635135599999999991    015265042
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                                     000000                                   5046
COMMENTS SUPPRESSED                                                         25047
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DIA                         00169CHIEF PLANNING DIVISION           634150DC35051
/WILLIAM /R. /QUISENBERRY                    65116301100999972I0E999991    020095052
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INTELL PLANNING AND MANAGEMENT  ABD035INTELL POLICY                  B   0285054
INTELL OBJECTIVES AND PRIORITIESABI025                                     0005055
                                     000002                                   5056
COMMENTS SUPPRESSED                                                         15057
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DIA                         00300INTELL OFFICER                    634150DC35061
/KEITH /W. /DONOHOE                          436163713579999 9640999991    009035062
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COMMENTS SUPPRESSED                                                         05067
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/WILLIAM /W. /J. /PASKO                   43416379999999721OE999991     006045072
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CURRICULUM DEVELOPMENT            CDT023VISITING LECTURER COORDINATION  T  0195074
CLASS MONITOR                     T  010PERSONAL AND PROFESSIONAL DEVEL IT 0055075
                                     000005                                   5076
COMMENTS SUPPRESSED                                                          15077
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COMNAVINTCOM                99999DEPUTY HEAD REQUIREMENTS MANGT DIV   000150VA35081
/M. /PENARANDA                            1469999999999999999999999990  006085082
07010101000900090009000900090009000902010009000900090009000900 09            5083
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COMMENTS SUPPRESSED                                                          15087
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COMNAVINTCOM                99999FLEET//INTEL CENTER COORDINATOR      000150VA35091
/MARSHALL /N. /TOWNSEND                   5999999999999999999999999999  099995092
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#/BARTHLOMEU                              5999999999999999999999999999  099995102
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/GEORGE /D. /WALKER                       64511109999999997210E7210E92    005145112
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DIA                       01470INTELLIGENCE OFFICER                  999460DC35121
/MELVIN /A. /WILSON                       435111011009999997210E999992  100075122
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DIA                       00470FORMER CHF POLICY PLANS PROG AND RQ  999380DC35131
/FRANK /L. /BOUSHEE                       64913109999999997210E8113S47  006095132
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CRIT NEAR TERM DEF INTELL OBJECTIJ 005PRES FOR INTELL ADVISORY BOARD     0035134
COLLECTION GUIDANCE MANUALS      002                                        0005135
                                 000000                                        5136
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FOSIC NORFOLK             00200ASST OFFICER IN CHARGE                669670VA46011
/ROBERT /B. /VOSILUS                      43216301100999997210E7210E1   003186012
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READING STUDY                   DIJ012                                      0006014
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                                 000011                                        6016
COMMENTS SUPPRESSED                                                           26017
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USS AMERICA CVA 66        06000INTELL OFFICER IOIC SUPERVISOR       033663AF46021
/JOHN /DRURY /SIMPSON, /JR.                 43216309999999997210E9640 9    009056022
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CINCLANT                  00680SPECIAL ASST (J20)                       000660VA46031
/LEONARD /L. /TUCKER, /JR.                   546111099999997210P7210S9     009166032
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ORGANIZATION MANAGEMENT         ABC005TRAINING                         T  0056034
SUPERVISION OF ALL INTELL ADP   BF0015                                    0006035
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COMMENTS SUPPRESSED                                                           16037
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NAS CECIL FIELD           06650OFFICER IN CHARGE FAISC                  602000FL46041
/EUGENE /L. /LASSITER                        441135013209999999999999915     003426042
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MISSION PLANNING ASSISTANCE SIOPDFI025                                    0006044
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                                   000000                                      6046
COMMENTS SUPPRESSED                                                           26047
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COMNAVAIRLANT             22400IOIC COORDINATOR                         570120VA46051
/LOWELL /DOUGLAS /FELPS                      434163013501355921OP000001     010256052
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OP READINESS EVALS              ADF005ADMIN MATERIAL INSPECTIONS        ABF0016054
ATTENDING MEETINGS CONFERENCES  EF 005                                    0006055
                                   000005                                      6056
COMMENTS SUPPRESSED                                                           06057
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COMSUBLANT                       99999ASST INTELL OFFICER                        570160VA46061
/ROBERT /J. /IANUCCI                                    436112099999999999997210S2  007246062
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SPECIAL EQUIPMENTS MANAGEMENT    BCF015                                              0006064
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NISO NEW YORK                    00100COMMANDING OFFICER                         630540NY46071
/GEORGE /I. /KNOWLES                                    64311101100110572100E7160P4  004106072
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INVESTIGATORY PROCESS                ABF003COUNTERINTELLIGENCE OPERATIONS      ABH0056074
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COMMENTS SUPPRESSED                                                                    06077
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/JOHN /M. /COWART                                       43616301350131099999999991   007126082
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INSPECTIONS OF FIELD OFFICES         ABF001ADMIN OF CIV MIL INTELL PERS           ABF0156084
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CINCLANT                         50100IDHS ADP OPS AND SYSTEMS OFFICER J202003660VA46091
/WALTER /J. /RIEDEMANN                                  540111099999997210S9210S47   100016092
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COMMENTS SUPPRESSED                                                                    16097
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/JOHN /J. /PAVELLE, /JR.                     6511630110099997210E000004    022016102
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MANAGEMENT OF INTELL NIS OFFICE ABC100INTERFACE OPERATORS PLANNERS     BCF0006104
PERSONNEL MANAGEMENT               BFT000NIS OPERATIONS                ABC0006105
INTELL APPRAISALS POINT PAPERS  DIJ000000                                   6106
COMMENTS SUPPRESSED                                                        26107
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FICEUR                      99999COMMANDING OFFICER                999120FL46111
/EMORY /R. /SOURBEER, /JR.                   650163013109999999999999991   016486112
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COMMENTS SUPPRESSED                                                        16117
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COMCRUDESGRU EIGHT          01800STAFF INTELLIGENCE OFFICER            999223AF46121
/WILLIAM /EDWARD /DUNCAN                     5381630110099997210E000002    011136122
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COMMENTS SUPPRESSED                                                        16127
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CTG 168.3 (EURFAST)         30100ASST OFFICER IN CHARGE             999171IT46131
/WILLIAM /H. /KOHN                           43316301635135500000000001    010166132
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TRAVEL ARRANGING TRAVEL            ABC005LIAISON WITH INTELL ACTIVITIES  F  0056134
INTELL COLLECTION RESOURCE MGMT BCL015                                    0006135
                                     000999                                  6136
COMMENTS SUPPRESSED                                                        16137
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/THOMAS /M. /MURDOCH                          54116301635999999999999994     017086142
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COMMENTS SUPPRESSED                                                          06147
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FOSIC NORFOLK            99999OFFICIER IN CHARGE                     669670VA46151
/ROWLAND /W. /MOORE                           53816301315999999999997160P1    007086152
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COLLATERAL INTELL DUTIES       ABQ043                                      0006154
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                                     000000                                   6156
COMMENTS SUPPRESSED                                                          16157
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NISO CHARLESTON          00150COMMANDING OFFICER                     630510SC46161
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/JOHN /H. /COBB                               43711009999999997200 7200 13   005426172
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BIOGRAPHICS                    AHI002                                      0006174
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COMMENTS SUPPRESSED                                                          16177
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/JAMES /J. /RALEIGH, /I/I/I                      436163713559999721OB000001       005246192
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WATCH STANDING (J2 DUTY WARGAME)ADE001ALTERNATE COMMAND POST FUNCTIONSABD0016195
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                                        000005                                  6216
COMMENTS SUPPRESSED                                                            06217
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FOREIGN NAVAL LIAISON            EFQ001                                   0006235
                                   000001                                    6236
COMMENTS SUPPRESSED                                                         16237
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USS JOHN F KENNEDY        06000INTELLIGENCE OFFICER IOIC SUPERVISOR 033673AF46241
/WALTER /DURAND /POELLNITZ, /I/I/I          43516301350999 7210E00000119   010016242
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COMMENTS SUPPRESSED                                                         16247
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USS SARATOGA              06000INTELLIGENCE OFFICER                 033603AF46251
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/THOMAS /HOBSON /GUTTERY                   5411630135099990000000000045    016306272
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/JAMES /M. /EGLIN                          538163013509999721OP000005      014136282
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/RICHARD /C. /DAVIS                        4401630131099990000000000015    006586292
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SECURITY MANAGER                 AQ 010AD HOC STUDY GROUPS                BDF0026294
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/ROBERT /P. /ABBATE                         441163011059999000000000001     003136372
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/ALFRED /SYDNEY /BEAVER                         5441630131099990000000001   010036382
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/JOSEPH /P. /DORAN                              4331630135599990000000001   008036412
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/D. /V. /AUSTIN                                4381630135099990000000000019   015026422
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/JOHN /EDGAR /DAVIS                            432163011059999000000999991    007186432
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/VICTOR /S. /SPOTO                             5411630135099990000000000414   019036452
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/GARY /W. /HARTMAN                            434163011009999999999999943   005256492
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SUPPORT RQMTS (PHOTO ADP) MGMT  BF0003                                      0006575
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PRODUCTION MANAGEMENT                BDF040                                  0006585
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RECCE ELINT COLLECTION PLANNING BKL010SUPPORTING AIRCREW PLANS GUIDE  BFL0206745
TARGET ANALYSIS AND NOMINATION  DEJ010000                                          6746
COMMENTS SUPPRESSED                                                               06747
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/EDWARD /B. /YOUNG                             5411630135013559999999999945    016146762
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/JIM /W. /WILMOT                           4381630131099999210P0000007   002546802
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COMSECONDFLT                 02300INTELLIGENCE COLLECTION PLANS        089613AF46831
/JAY /SIGMUND, /I/I                         4361630135599999999999999235   007296832
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COMMENTS SUPPRESSED                                                           16837
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FICEURLANT                   50050ADP SYSTEMS DIRECTOR HD DATA PROC DPT999130VA46841
/ROBERT /K. /BUECK                          54413109999999999210P9000P47   010486842
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COMMENTS SUPPRESSED                                                           16847
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COMRECONATKWING ONE          00100COMMANDER                             999300FL46851
/CLIFFORD /E. /THOMPSON                     6431310999999999999999999949   013156852
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RQMTS FOR NEW EQUIPMENTS       BF 010RQMTS FOR NEW TRAINING              CFT0106854
COMMAND INSPECTION OF RECCE CAP.BF 005                                      0006855
                                        000008                                 6856
COMMENTS SUPPRESSED                                                           16857
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/JOHN /J. /DOWER                             43816351355999900000881OP15    009276872
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COMASWFORSIXTHFLT        06500ACOS FOR INTELLIGENCE                   095501IT46881
/JOHN /E. /FLANIGAN, /JR.                    5451310110099997210S7210S14    004036882
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BILATERAL ARRANGEMENTS             DEF012                                       0006884
                                 000                                            0006885
                                 000002                                            6886
COMMENTS SUPPRESSED                                                               06887
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CINCLANT                 99999INTELLIGENCE OFFICER                    000660VA46891
/ROBERT /OWEN                                4999999999999999999999999     999996892
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COMMENTS SUPPRESSED                                                               16897
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                                  000                                          0006905
                                  000005                                          6906
COMMENTS SUPPRESSED                                                             06907
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CINCLANT                  99999TARGET INTEL PRODUCTION OFFICER          000660VA26911
/LARRY /A. /BURDA                           33013200000000000000000001      003126912
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WORK ON NEW ADP SYSTEM              AB0020                                     0006914
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                                  000035                                          6916
COMMENTS SUPPRESSED                                                             26917
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NIPSTRAFAC                00100COMMANDING OFFICER                      664000FL26921
/JAMES /E. /RIPPLE /JR.                     540163013500007210E8530S278     016166922
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COMMENTS SUPPRESSED                                                             26927
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COMFAIRKEFLAVIK           01900ASST INTELLIGENCE OFFICER ASST SSO   091171IC46931
/JAMES /C.#/LE /VANGIE                      4351120000000000000007210P11237901218693 2
0201010100000011002103010051002100010041010100110301005100010051003 1            6933
TECHNICAL AND HUMINT SUPPORT        BFH001                                     0006934
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                                  000001                                          6936
COMMENTS SUPPRESSED                                                             26937
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/L. /N. /JENSEN                               3291630135599999999999991    006068002
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MESSAGE DRAFTING                        AF 005                               0008004
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23322233333322333322333323312311211211211222322311111211233333334         1058008
JSTPS                      090800PS STAFF OFFICER                    645910NB58011
/D. /J. /DUHKOPF                              6461310999999999999997132S0  100308012
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COMMENTS SUPPRESSED                                                            08017
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CINCPAC                    51200INTELL DATA HANDLING SYS             000382HI58021
/E. /P. /CURLEY                               4361630110599999999999999917  012228022
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COMMENTS SUPPRESSED                                                            28027
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CTF 72                     00800STAFF INTELL OFFICER                 999342JP58031
/D. /L. /KITTLEMAN                            53916301350999972I0E9680 438  005088032
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COMMENTS SUPPRESSED                                                            08037
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/J. /L. /PESTER                                 33316309999999999210P9210P478    006068042
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COMMENTS SUPPRESSED                                                                18047
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1112231111111111111111111111111123323333333323332221111112331113333333         1058048
JSTPS                         090650PS STAFF OFF,ESTIMATES BRNCH,NSTLDIV645910NB58051
/E. /S. /DVORNICK                               4391120999999999999998510P4278   100248052
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LIAISON WITH OTHER AGENCIES      EF 020                                          0008054
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COMMENTS SUPPRESSED                                                                18057
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FICPAC                        20110HDD INTELL APPLIC PROGRAMMING BRNCH  631862HI58061
/K. /LICHTENBERG                                32716559999999999200T9999927     002368062
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COMMENTS SUPPRESSED                                                                18067
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CINCPACFLT                    02000INTELL READINESS,TRAINING,RES AFFAIRS000702HI58071
/R. /A. /NOBLE                                  437163011009999964 0  999994        007098072
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/D. /F. /HACK                                 43216301635110599999999999113   006028082
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DAILY INTELL SUM MESSAGES      AIJ040                                   0008084
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CINCPACFLT              99999INTELL COLLECTION REQ                 000702HI58091
/A. /D. /GRACE                                4371630999999999999999991   011498092
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CINCPACFLT              02321ASST RECON SUPPORT OFFICER            000702HI58101
/W. /A. /PEZET                                43511209999999972l0E9210P4  100338102
005100210001001100010001010100010001001100110001000100010001001l0011      8103
LIAISON WITH STAFF AND COMMANDS BEF051                                  0008104
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                                    000028                                 8106
COMMENTS SUPPRESSED                                                       08107
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COMSUBPAC               95000SSO                                   570202HI58111
/H. /W. /LEEKE                                4331120999999999999999999112  100308112
025101010011001000090009012100090011000900810009015100090009006100l1     8113
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                                    000020                                 8116
COMMENTS SUPPRESSED                                                       08117
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TASK GROUP 168.1       20100ASST OIC                                  999152HI58131
/J. /B. /STOCKWELL                            43711101100999997210E7210E13    002098132
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CONFERENCES                      DEF005                                      0008134
                                000                                          0008135
                                000000                                          8136
COMMENTS SUPPRESSED                                                            18137
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TASK GROUP 168.1       20000OFFICER IN CHARGE                         999152HI58141
/J. /E. /HARMON                               540163011009999999999999113     008218142
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CONFERENCES                      DEF005                                      0008144
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COMSUBGRU FIVE         00500INTELL OFFICER                            999262CA58151
/W. /T. /STUTZER                              5371120999999997210P7210S13    002058152
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USS CONSTELLATION CVA 64 06000SHIP INTELL OFFICER                                    033642CA58161
/S. /C. /ALBERS                                 433163013509999721OE9999915         0090 28162
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COMPHIBRON SEVEN          00910INTELL OFFICER                                      552814AF58171
/G. /W. /HODAK                                  3291310999999999999998510P4         100048172
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(COLLATERAL DUTY)                       100                                           0008174
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/J. /D. /SKILES                                 4371110999999997210S999991          001028182
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COMMENTS SUPPRESSED                                                                      18187
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IPAC                      02040INTELL ANALYST                                      999332HI58191
/T. /L. /MORGAN                                 43616301355139599999999991          008368192
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/DAVID /C. /PARKHURST                         6431310999999999999997210 1123  004088202
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COMMENTS SUPPRESSED                                                               28207
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COMUSNAVPHIL             01700INTELL PLANNING                              999352PI58211
/P. /R. /ROCK                                 436163713559999999999999912     005058212
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LIAISON WITH FOREIGN NATIONALS  EFQ011                                          0008214
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                                     000000                                        8216
COMMENTS SUPPRESSED                                                               18217
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COMNAVFORKOREA           00800STAFF INTELL OFFICER                         628942KO58221
/D. /R. /ZICKAFOOSE                           43416371635110596409680 14      011018222
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COMMENTS SUPPRESSED                                                               28227
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FICPAC                   11100HD INTELL SUPPORT DEPT                       631862HI58231
/EDWARD /C. /SCHEINER                         3356631662199999999999999049    100018232
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PRODUCTION MANAGEMENT               ABD012                                      0008234
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                                     000025                                        8236
COMMENTS SUPPRESSED                                                               28237
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/I. /A. /WATERS                          5391630999999999999999991     015188242
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FIRST LT DUTIES                  AQS040CIV PERS MNGMNT                ABT0108244
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                                    000000                                  8246
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